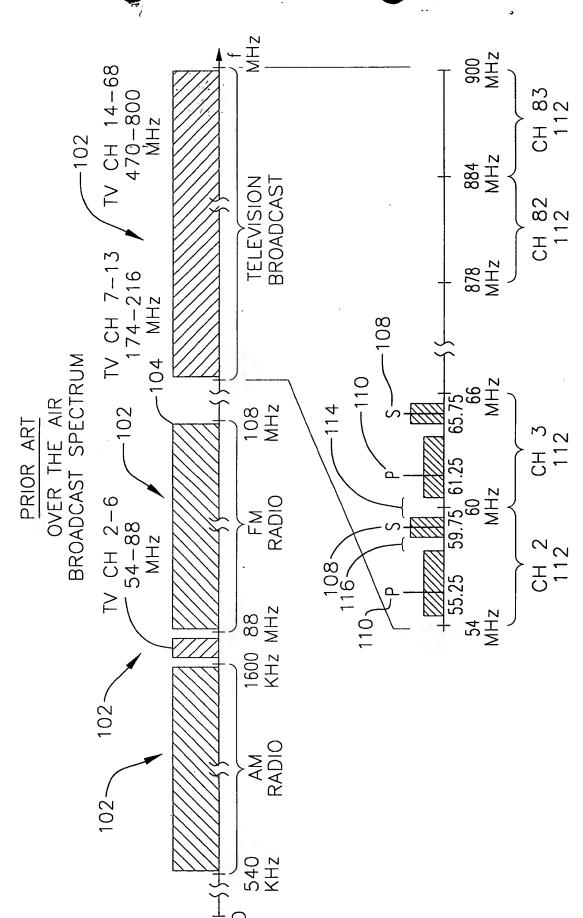
FIG. 1



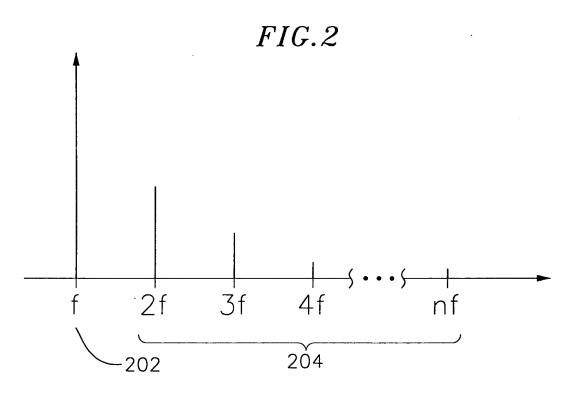


FIG.4

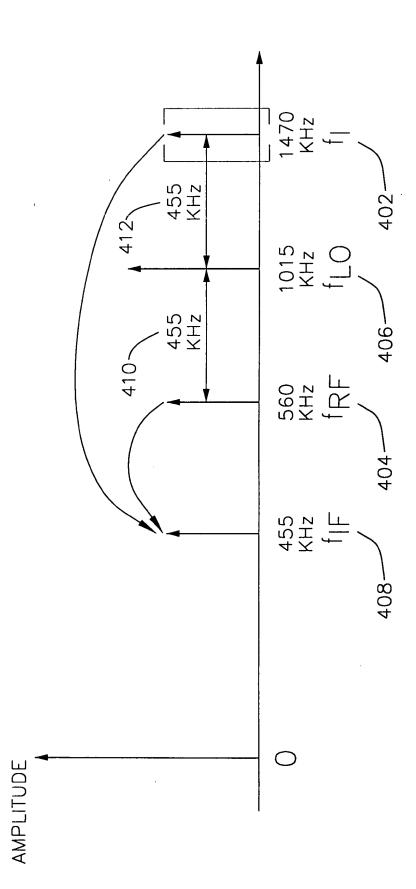
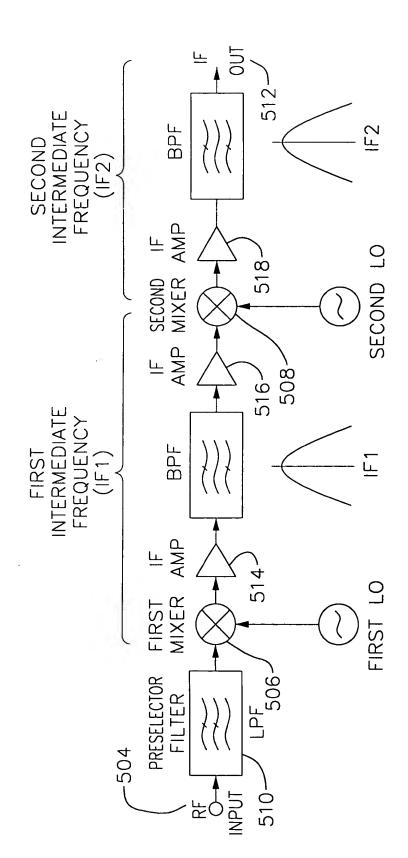


FIG.5Dual conversion receiver



IF2<RFINPUT<IF1

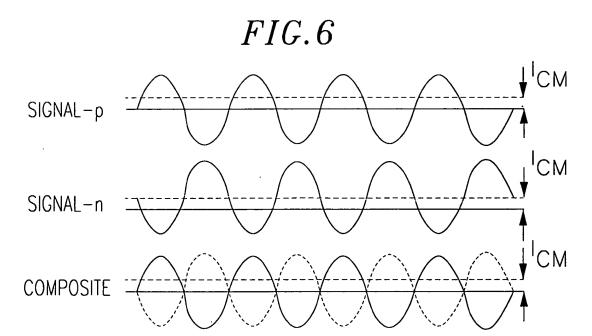


FIG. 7

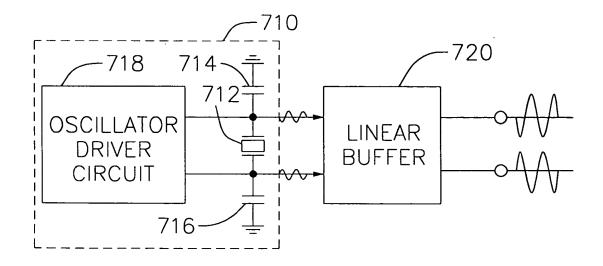
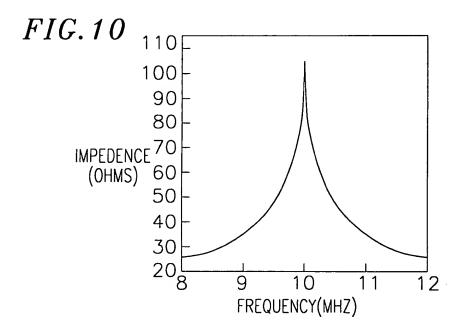
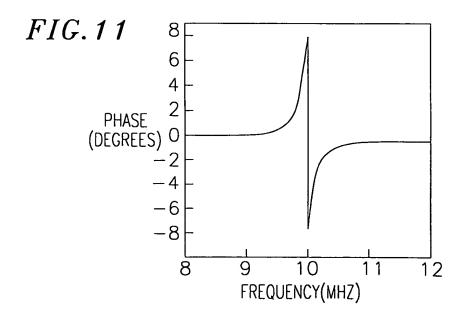


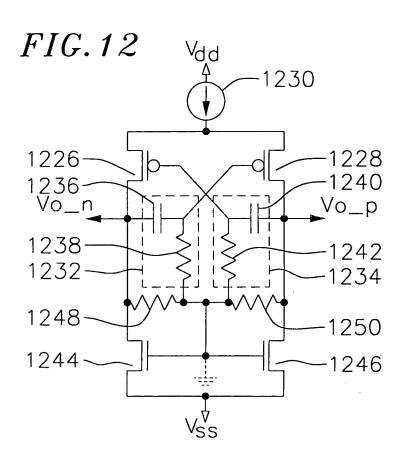




FIG.8 822 712 824 Co Rm







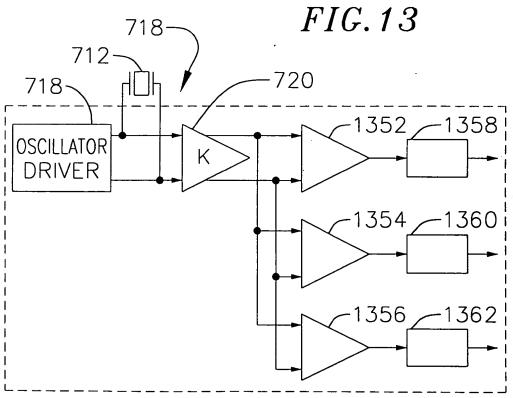
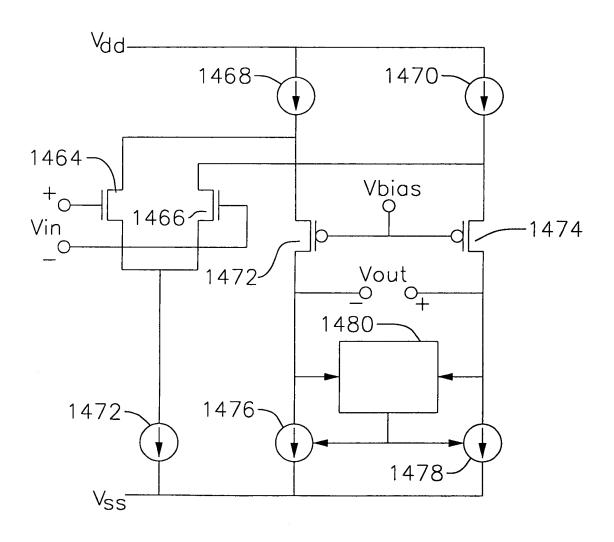
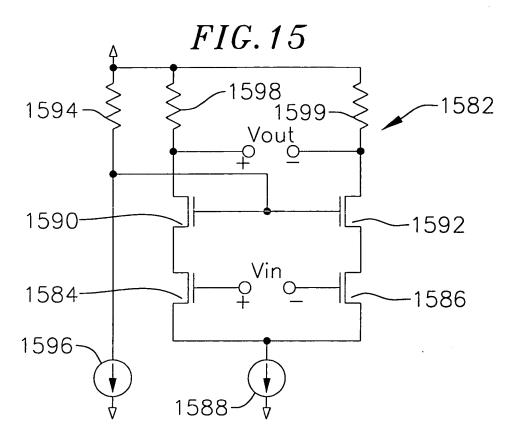


FIG. 14





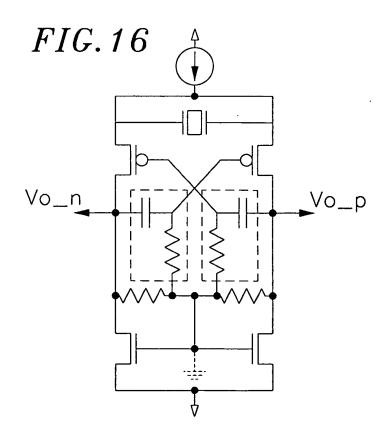


FIG. 17

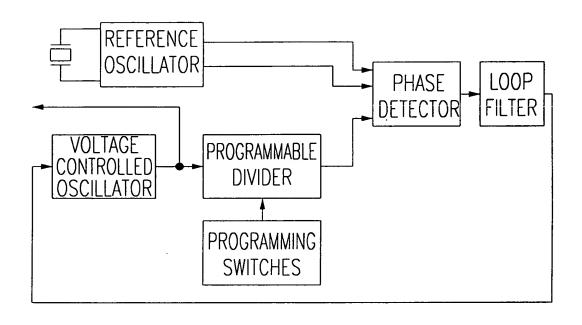


FIG. 18

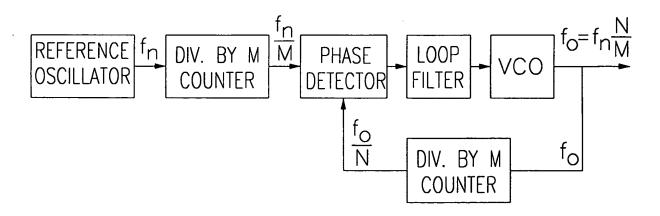


FIG. 19

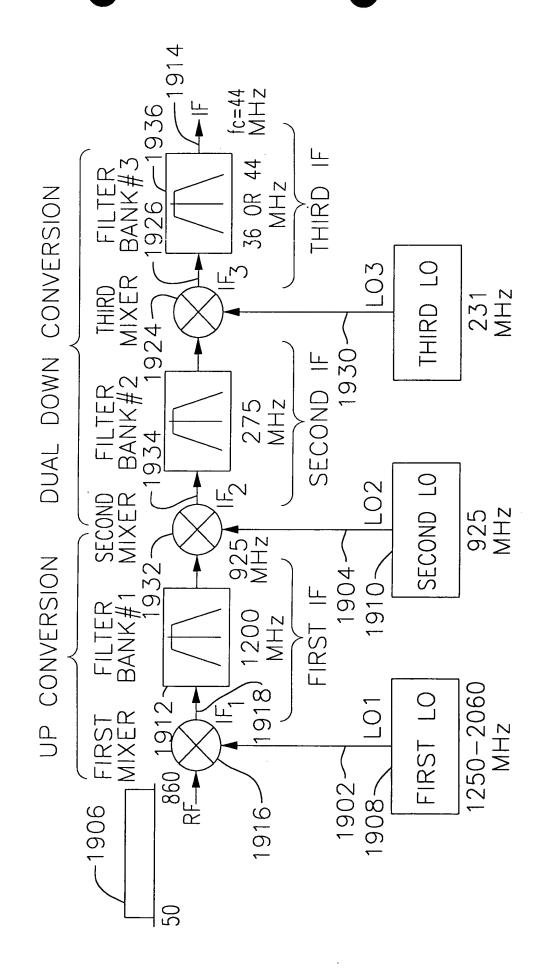
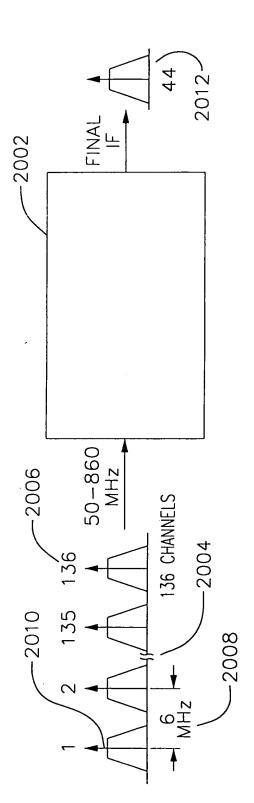


FIG.20



PPL Xtal REFERENCE=10MHz LO-1, 10MHz FREQUENCY STEPS LO-2, 100kHz FREQUENCY STEPS

FIG.21

44MHz IF

TABLE OF FREQUENCIES BASED ON COARSE/FINE PLL SOLUTION:

NOTE

• LO-2 REF=100KHz

SO DIVIDE RANGE=9216 TO 9280

860	2060	1200		924.8		275.2		231		44.0	
854	2050	1196		921.6		274.4 2		230		44.0	
=	1.1	=		=		-		=			
128	1330	1202		926.4		275.6		232		44.0	
122	1320	1198		923.2		274.8		231		44.0	
116	1320	1204		928.0		275.2 276.0 274.8 275.6 274.4 275.2 276.0 274.8		232		44.0	
110	1310	1200	-	924.8		275.2		231		44.0	
104	1300	1196		921.6		274.4		230		44.0	
98	1300	1202		926.4		275.6		232		44.0	
92	1290	1198		923.2		274.8		231		44.0	
98	1290	1204		928.0		276.0		232		44.0	
80	1280	1200		924.8		275.2		231		44.0	
74	1270	1196		921.6		4.		230		44.0	
89	1270	1202		926.4		276 274.8 275.6 274		232		44.0	
62	1260	1198		923.2		274.8		230.8		44.0	
56	1260	1204		928.0	1		-	232		44.0	
50	1250	1200		924.8		275.2		231.2		44.0	
MHz)	LO-1 (MHz)	IF-1 (MHz)		LO-2 (MHz) 924.8		IF-2 (MHz) 275.2		LO-3 (MHz) 231.2	-	IF-3 (MHz)	
Frf (MHz)	L0-1	IF-1		L0-2		IF-2		10-3		IF-3	



8

PPL Xtal REFERENCE=10MHz LO-1, 10MHz FREQUENCY STEPS LO-2, 100kHz FREQUENCY STEPS

FIG.22

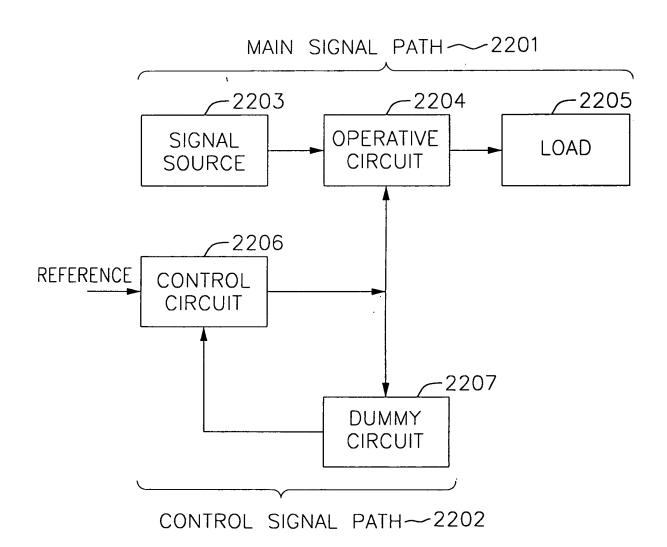
36MHz IF

TABLE OF FREQUENCIES BASED ON COARSE/FINE PLL SOLUTION:

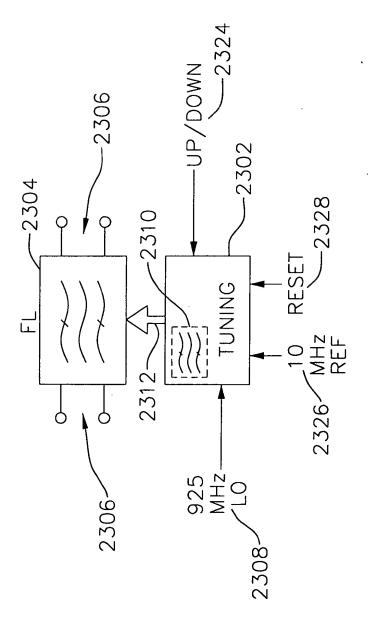
NOTE • LO-2 REF=100KHz SO DIVIDE RANGE=9280 TO 9340

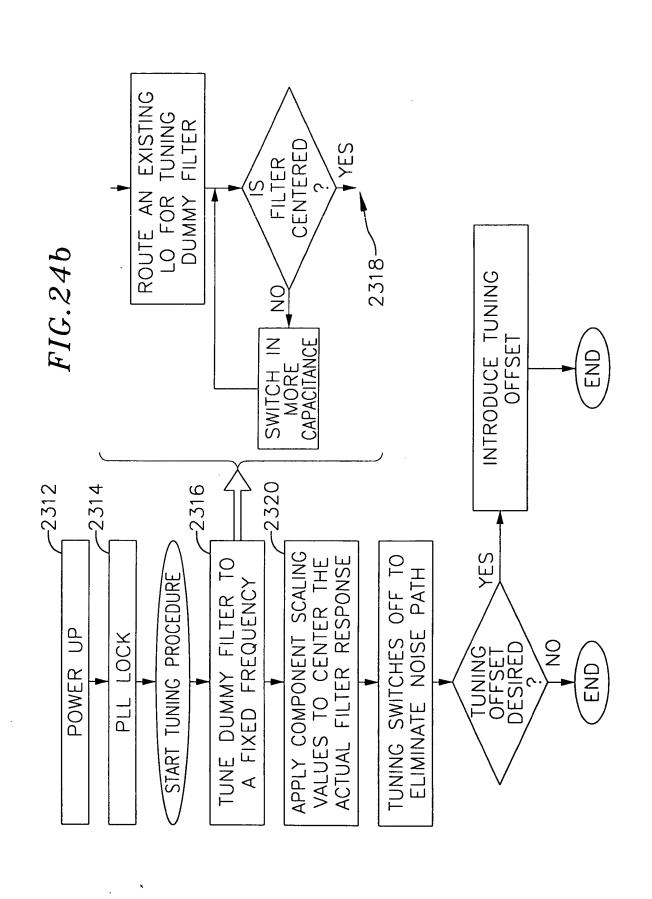
980	2060	1200	1.2	80.	2.8	36.0
			931.2	268.8	232.8	
852	2050	1198	929.60	268.4	232.4	36.0
=	=	=	=	=	=	=
154	1350	1196	928.0	268.0	232.0	36.0
146	1350	1204	934	269.6	234	36.0
138	1340	1202	933	269.2	233	36.0
130	1330	1200	931	268.8	233	36.0
122	1320	1198	930	268.4	232	36.0
114	1310	1196	928.0	268.0	232	36.0
106	1310	1204	934	269.6	234	36.0
98	1300	1202	933	269.2	233	36.0
06	1290	1200	931	268.8	233	36.0
82	1280	1198	930	268.4	232	36.0
74	1270	1196	928.0	268.0	232	36.0
99	1270	1204	934.4	269.6	233.6	36.0 36.0
58	1260	1202	932.8	269.2	233.2	36.0
50	1250	1200	931.2	268.8 269.2	232.8	36.0
Frf (MHz)		IF-1 (MHz)	LO-2 (MHz)	IF-2 (MHz)	LO-3 (MHz) 232.8 233.2	IF-3 (MHz)
Frf	9	느		7-	의	

FIG.23



 $FIG.24\alpha$





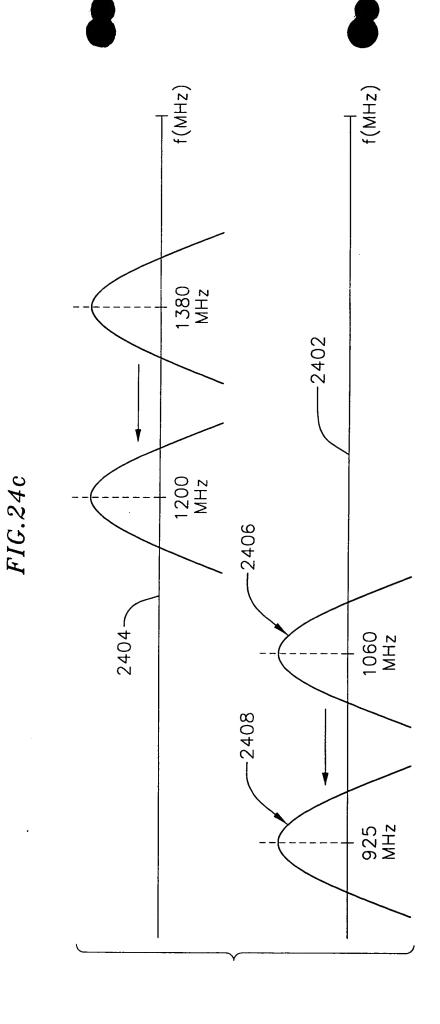


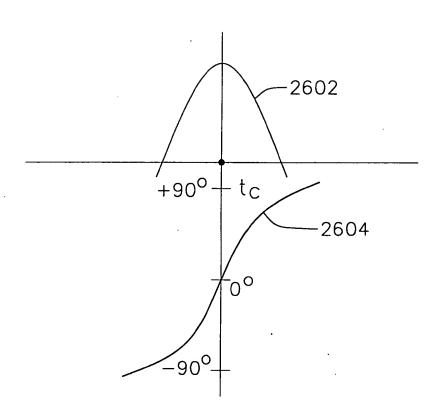
FIG.25

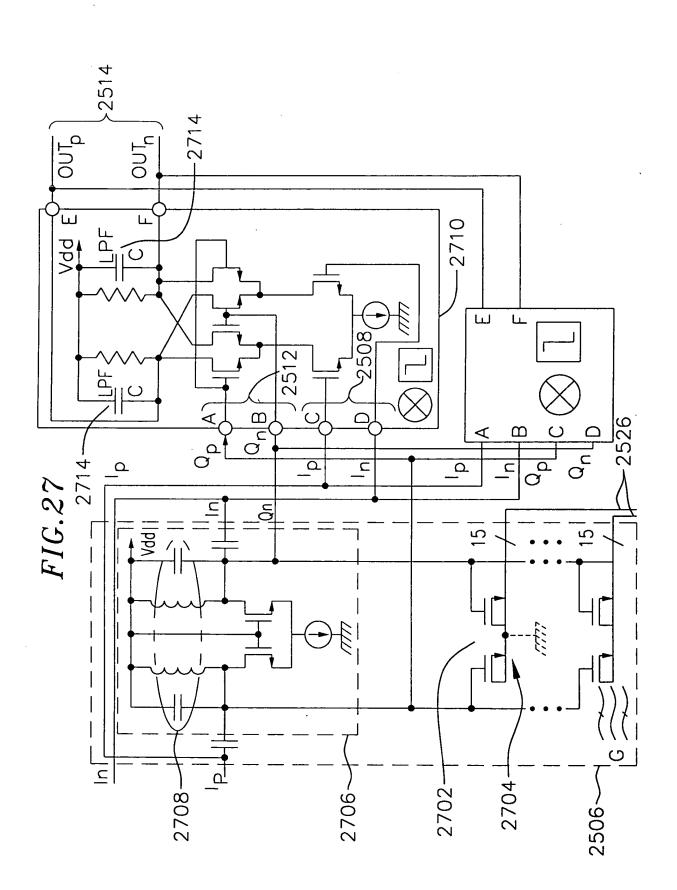
15 -2502 -2504 RESET -2518 ~2524 10MHz -2516 OUTP OUTN -2530 -2510 1554ء L2520 2512 -2508 2522~ -2526 Q d <u>م</u> 9 _z` __ Š <u>_</u>Z 2510-2528~ ပ 2506~ 2508 <u>م</u> Z



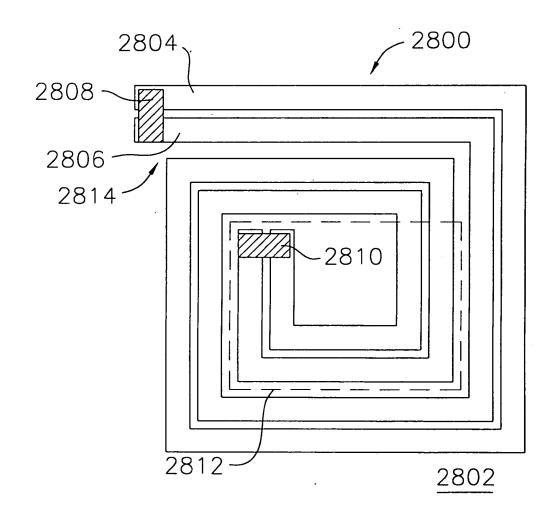


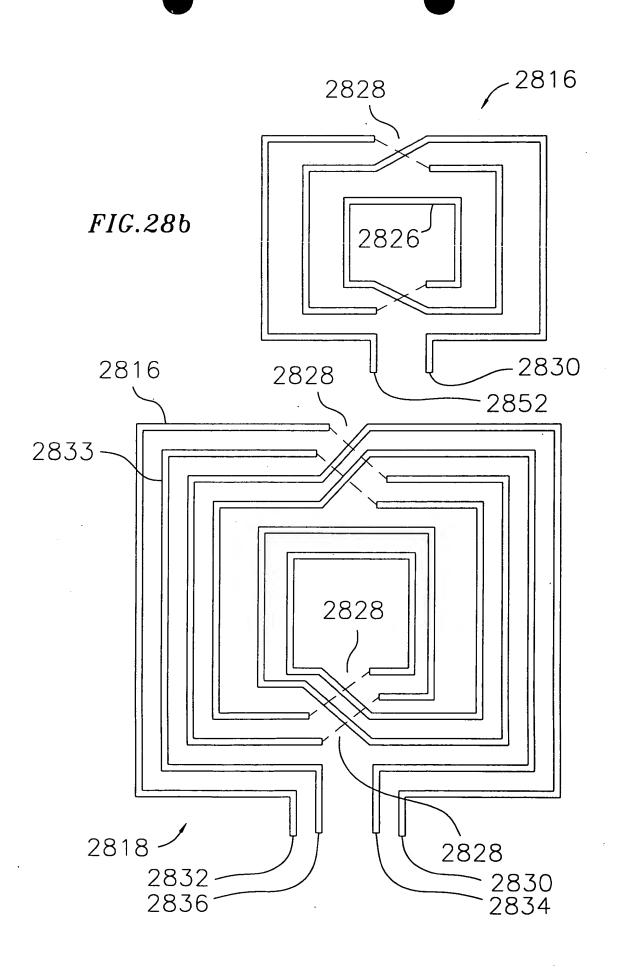
FIG.26





 $FIG.28\alpha$





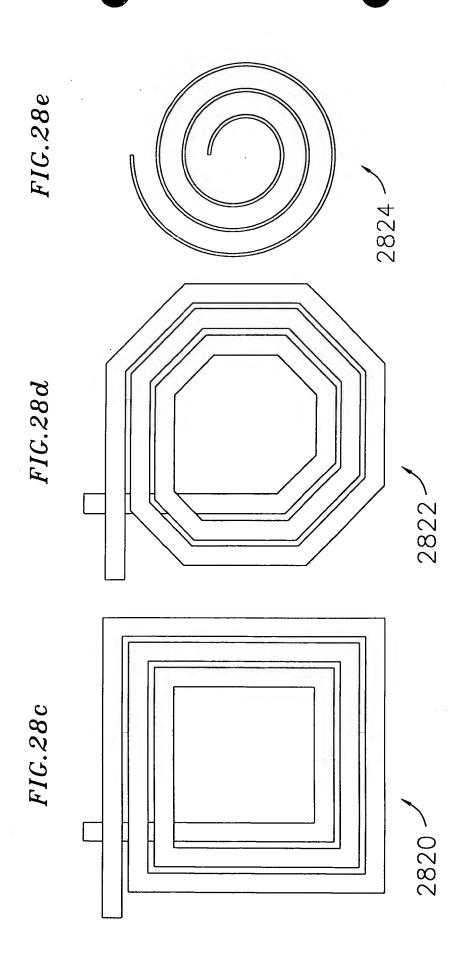


FIG.28f

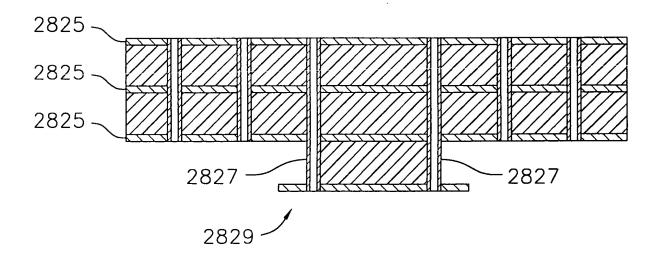


FIG.28g

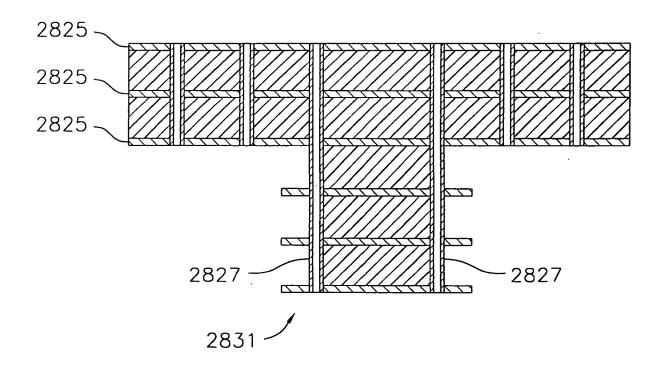
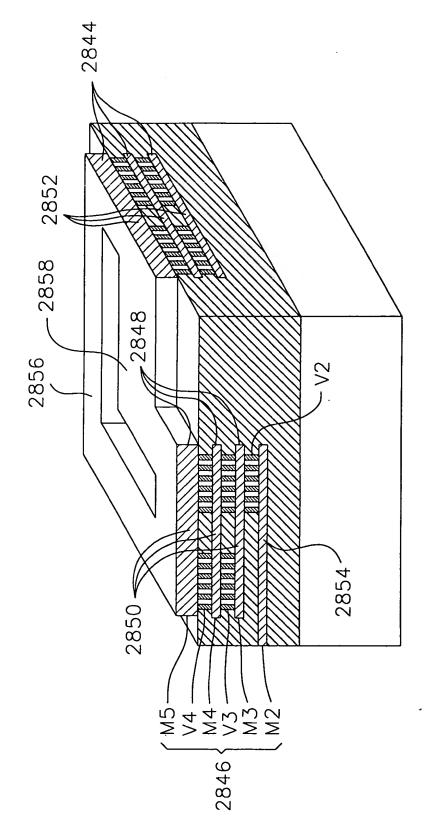
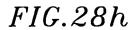


FIG.28i





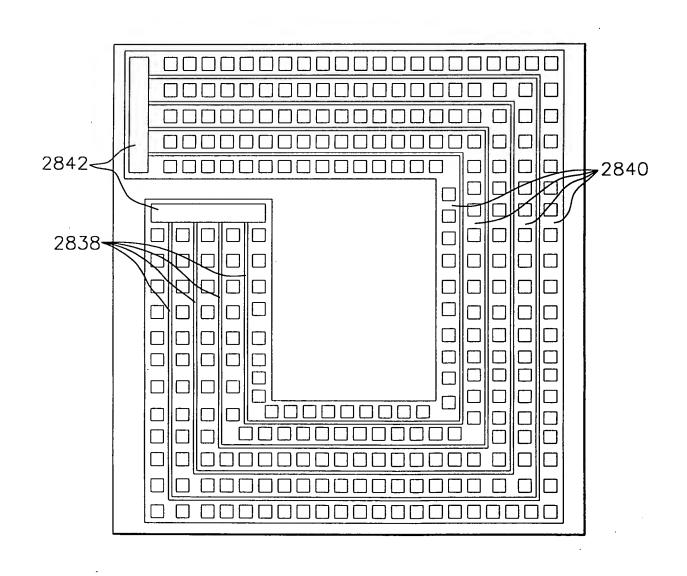


FIG.28j

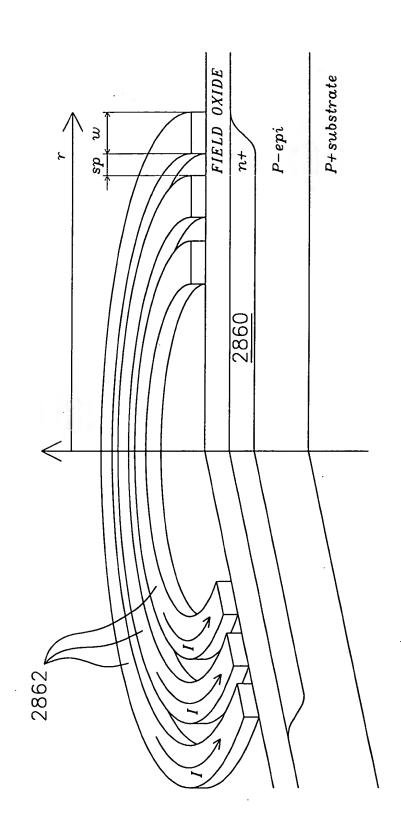


FIG.28k

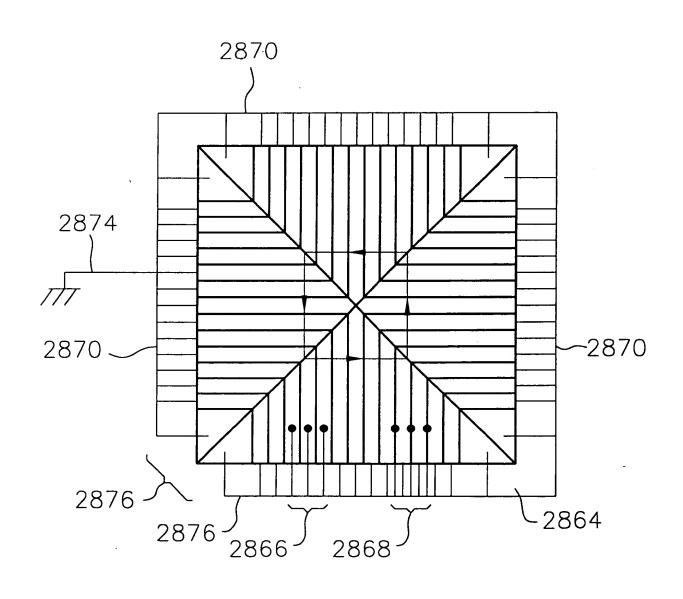


FIG.29

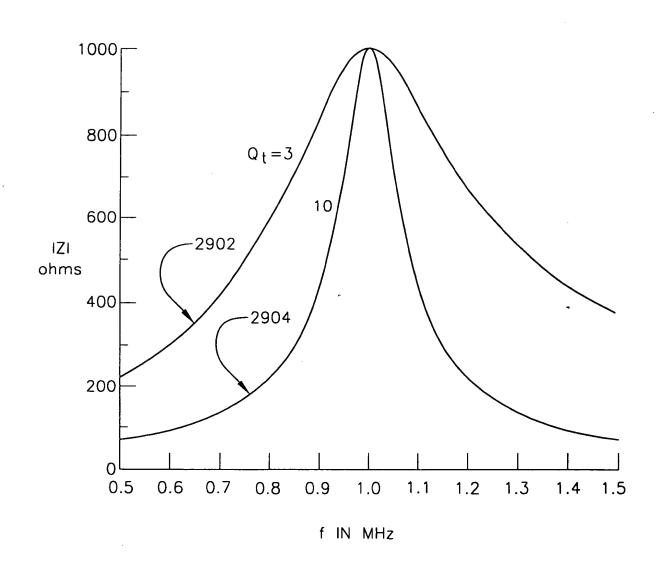


FIG.30

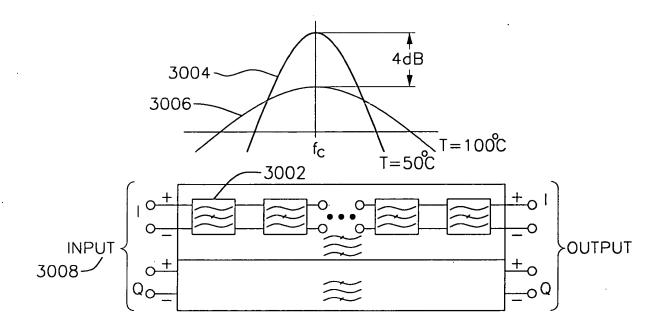


FIG.31 α

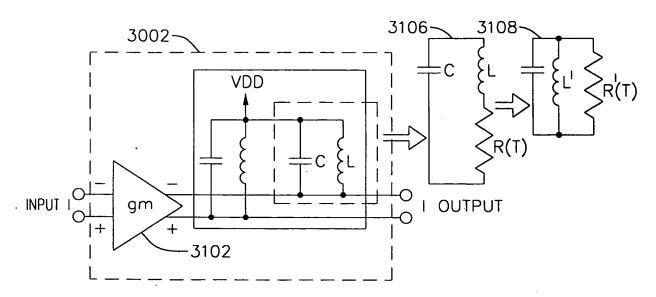


FIG.31b

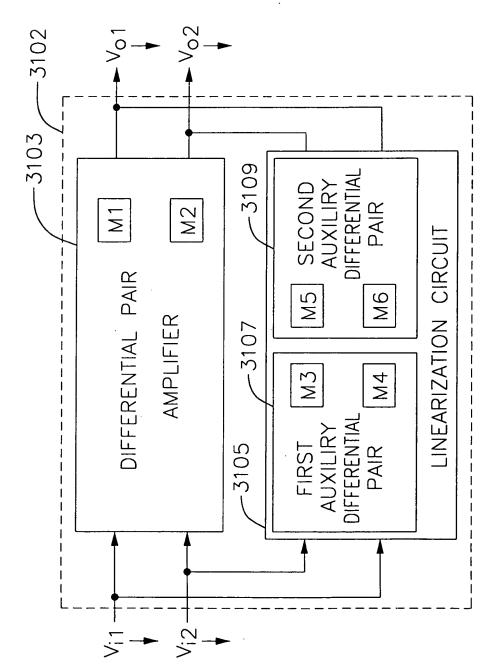
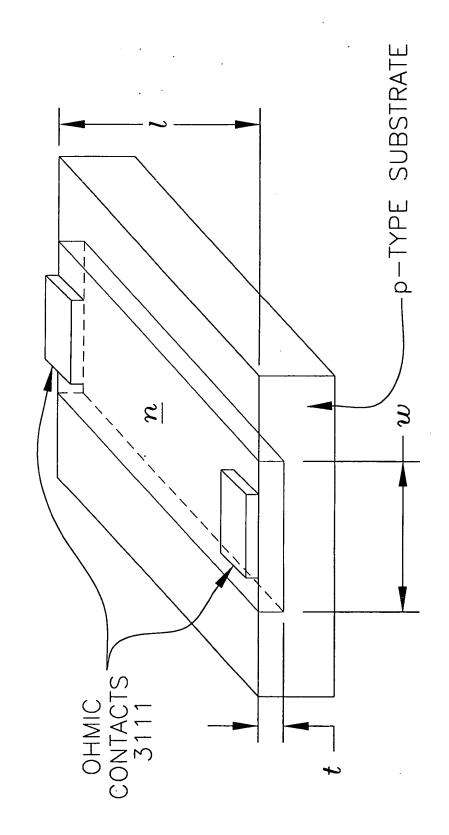


FIG.31c



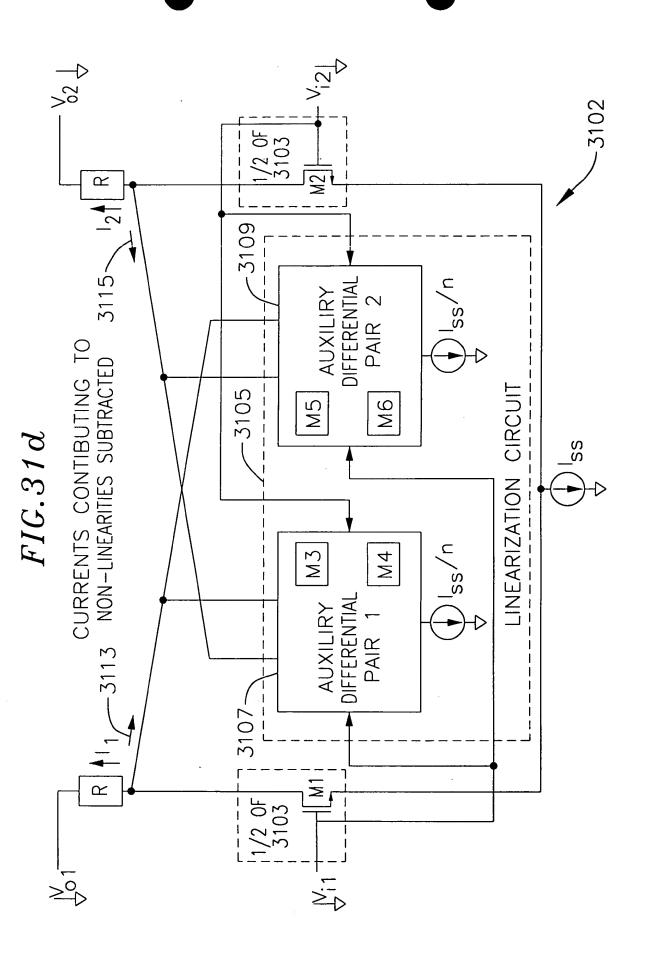


FIG.31e

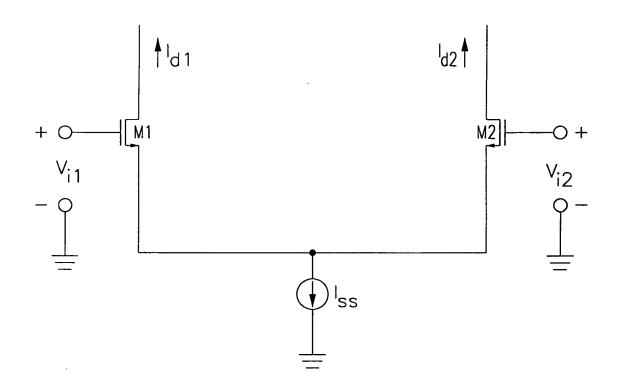
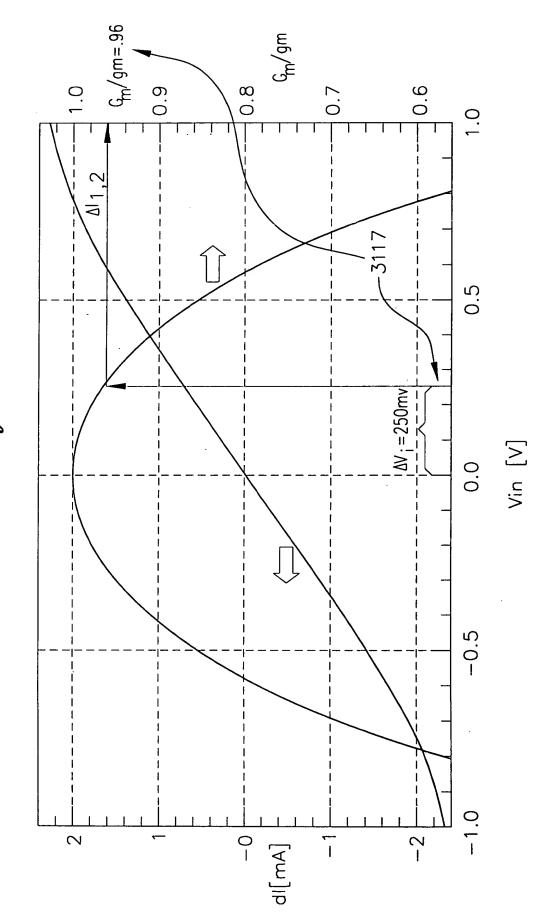


FIG.31f



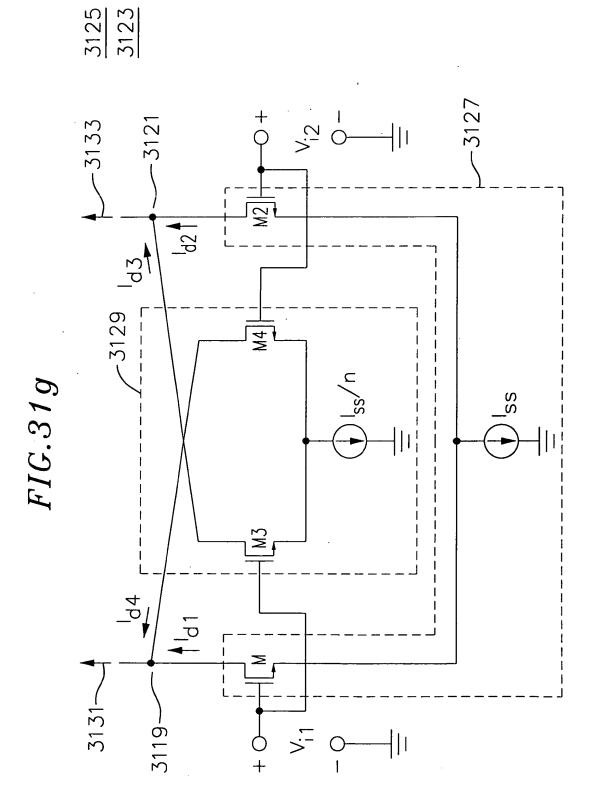
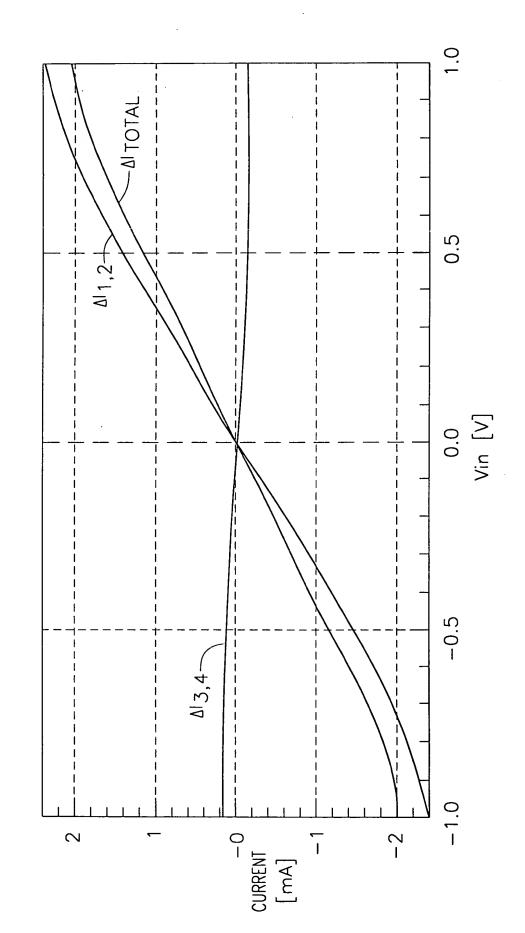
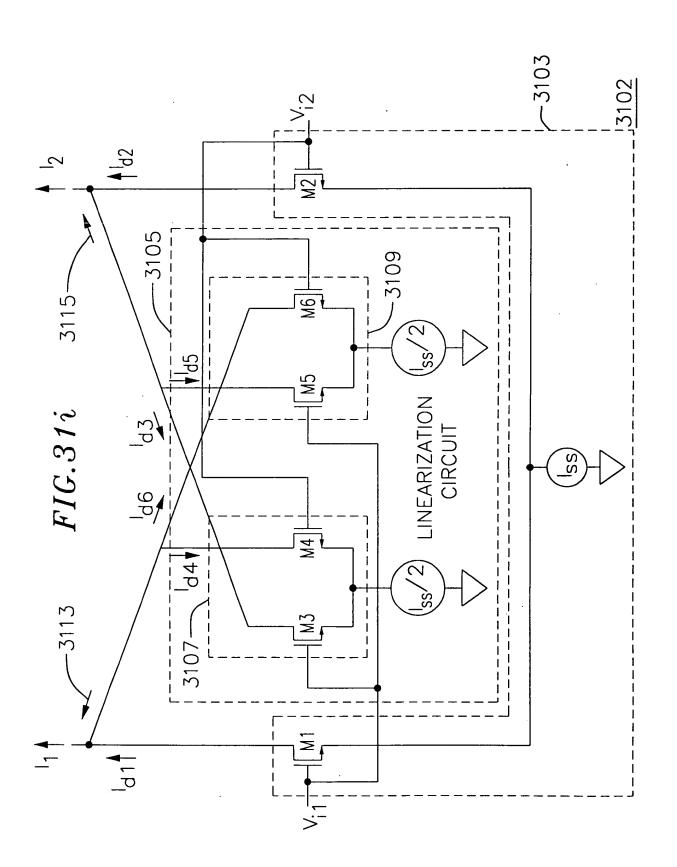


FIG.31h

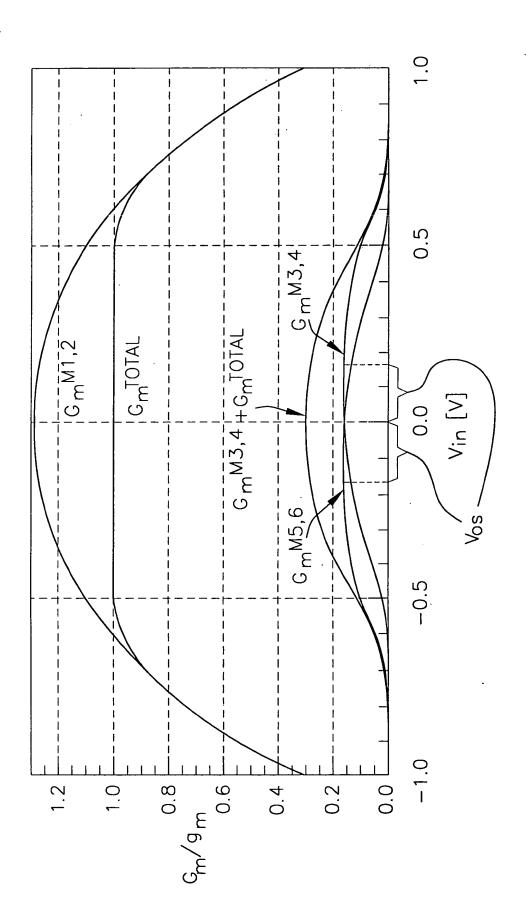




- ATOTAL 0.5 -3135 FIG.31j0.0 Vin [V] 13,4-N5,6--0.5_0 L CURRENT [mA] ~ -2

rogano anasno

FIG.31k



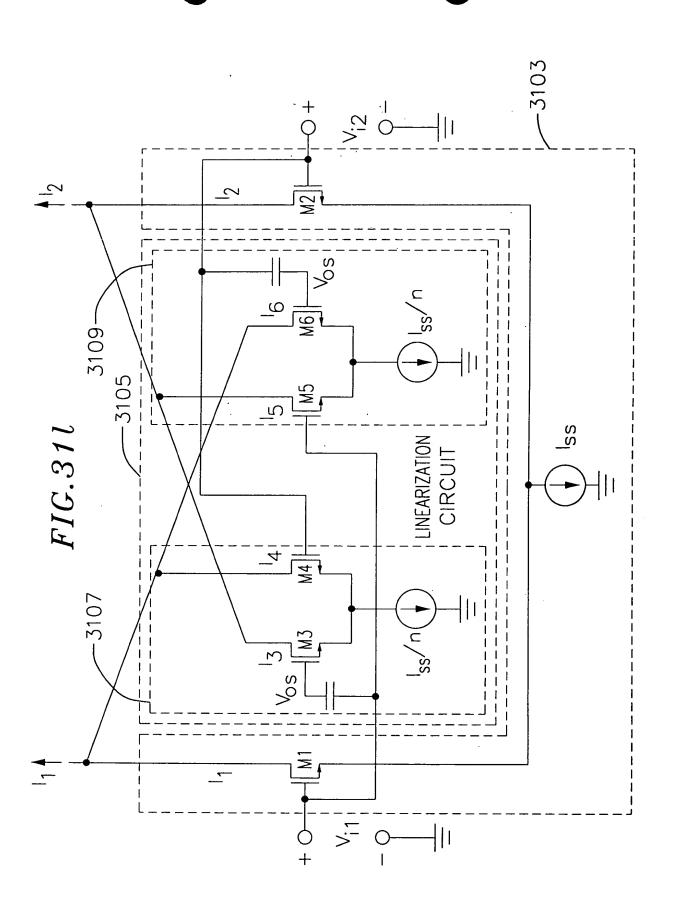
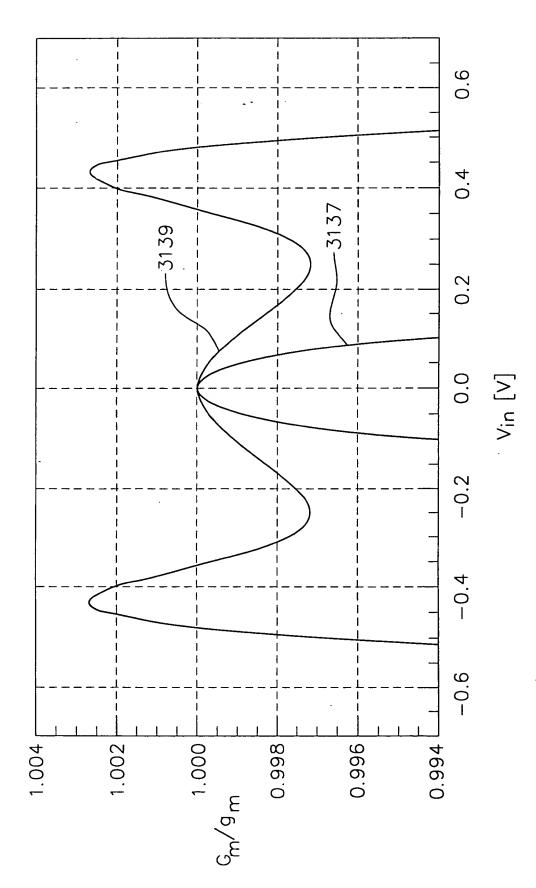


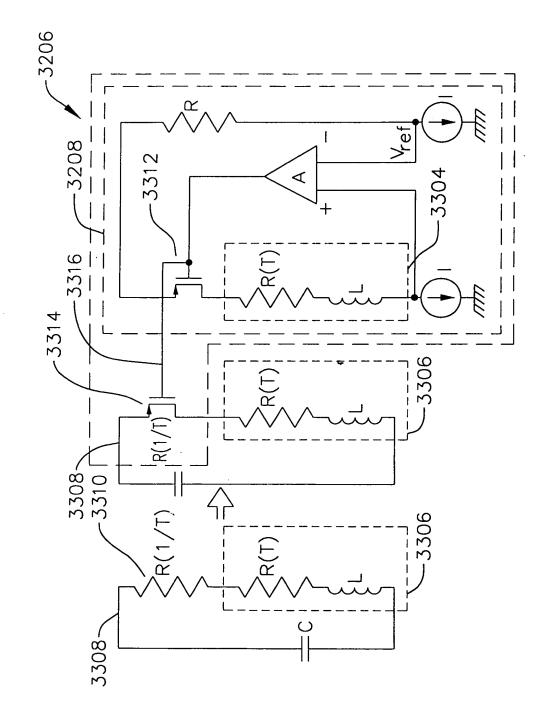
FIG.31m



 $\left\langle -R(T) = \right\rangle$ -3204 -OUTPUT -3206 -3208 000+ -3002 3314 CONTROL -3306 -3208 Сш ddy : CONTROL 3202-10 -3102 3306-3206~ 3104-3314 g + +100 INPUT.

FIG.32

FIG.33



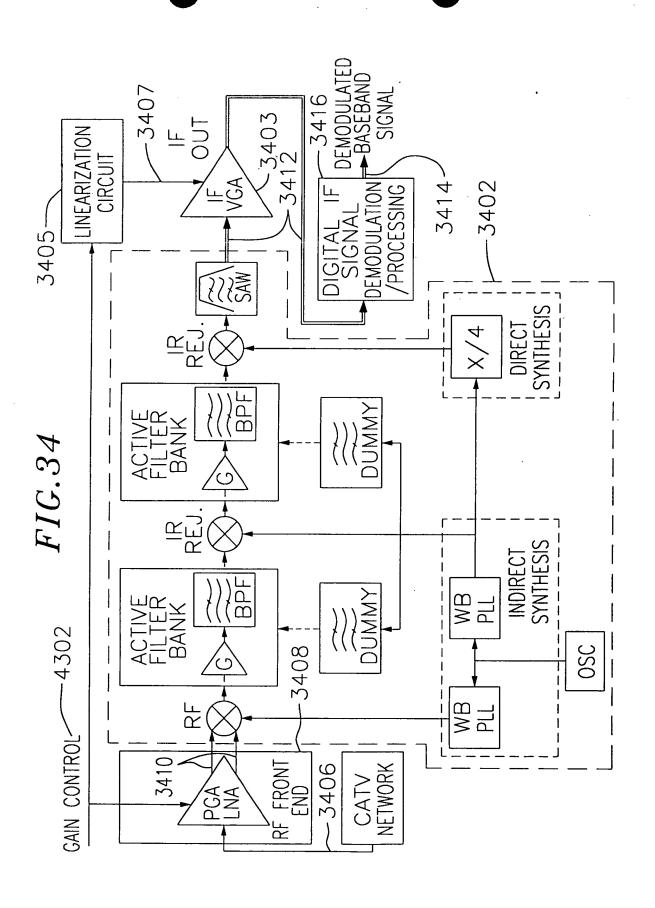
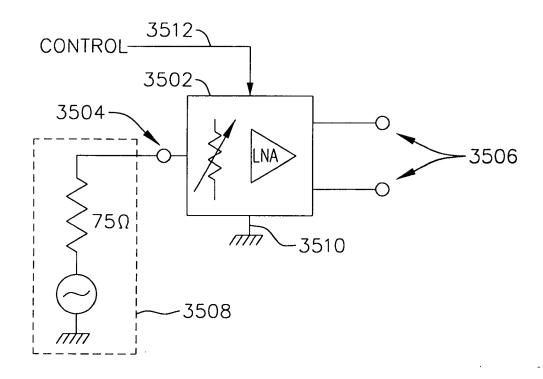


FIG.35



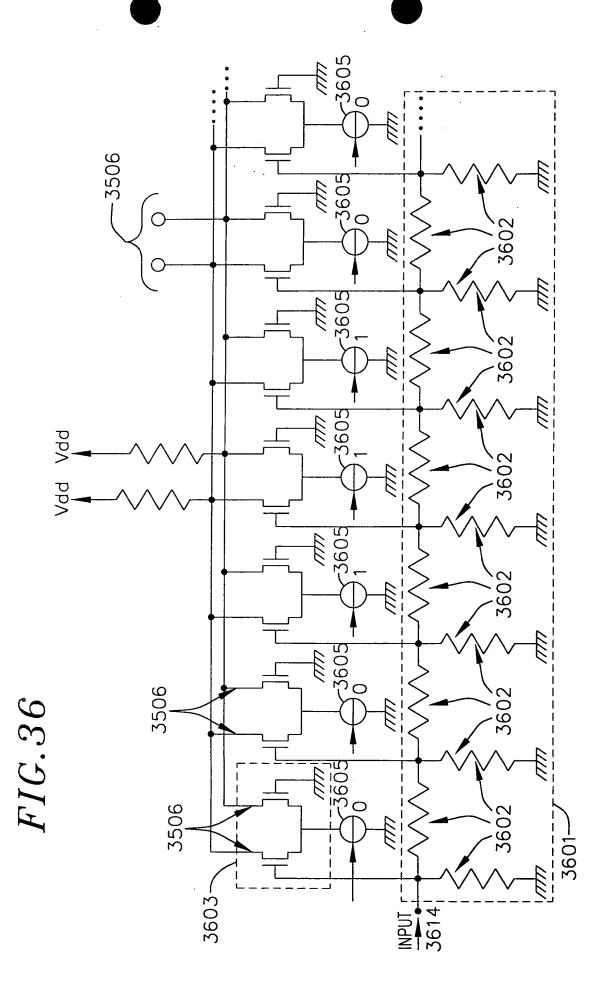
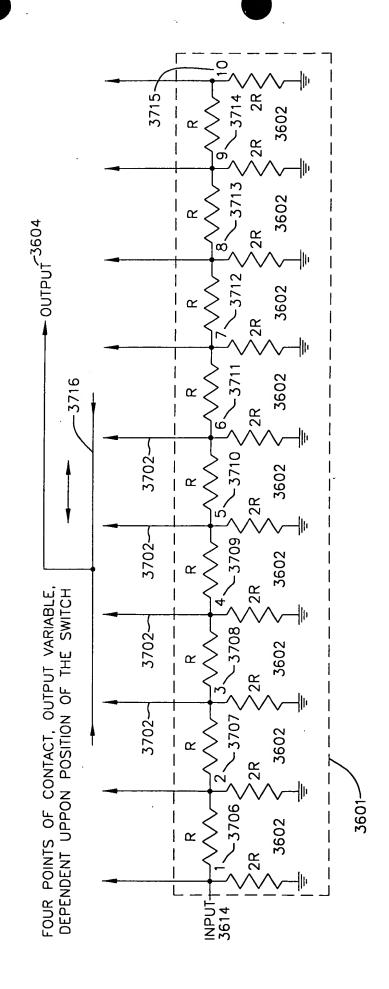


FIG.37

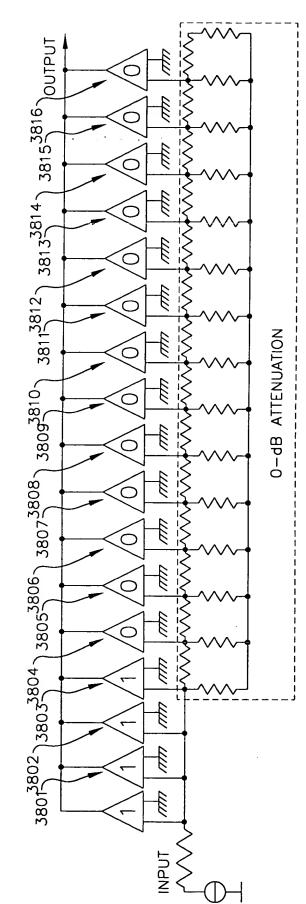


8



FIC.38

PGA SETTINGS



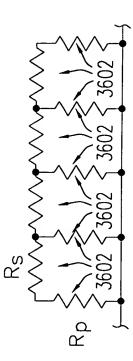


FIG.40

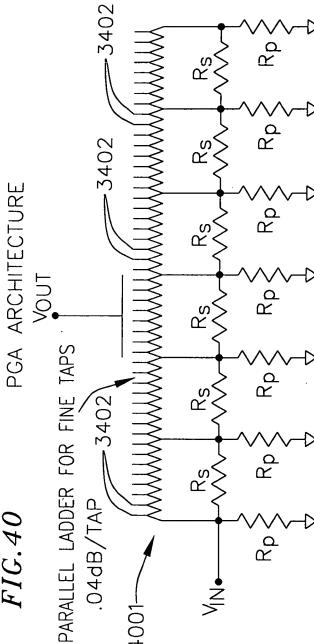


FIG. 41

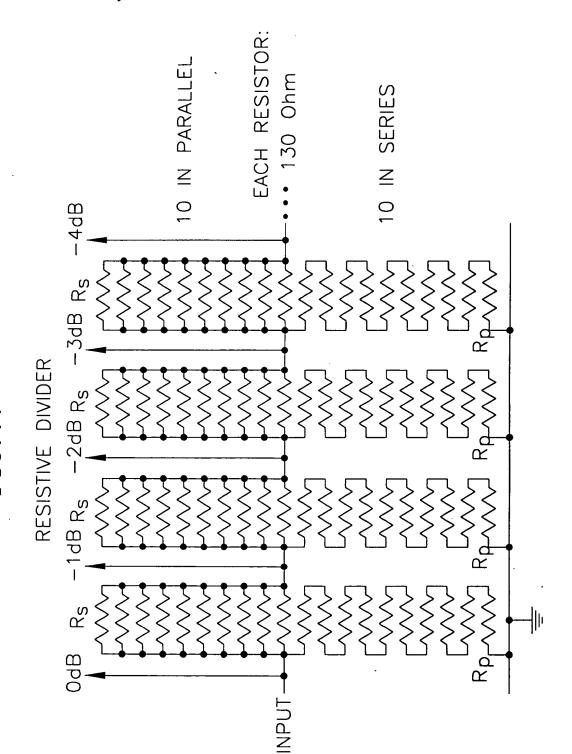
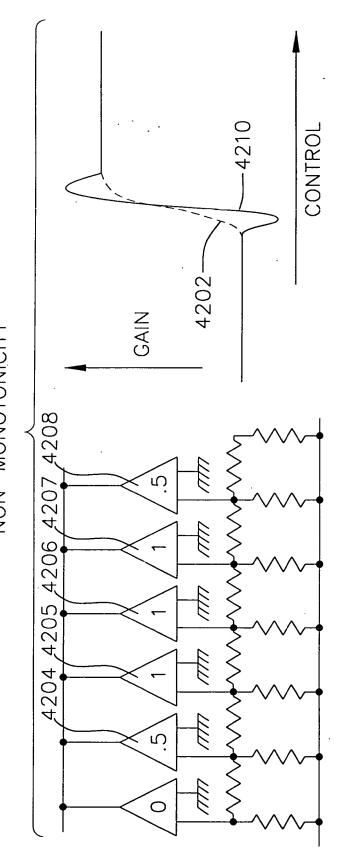
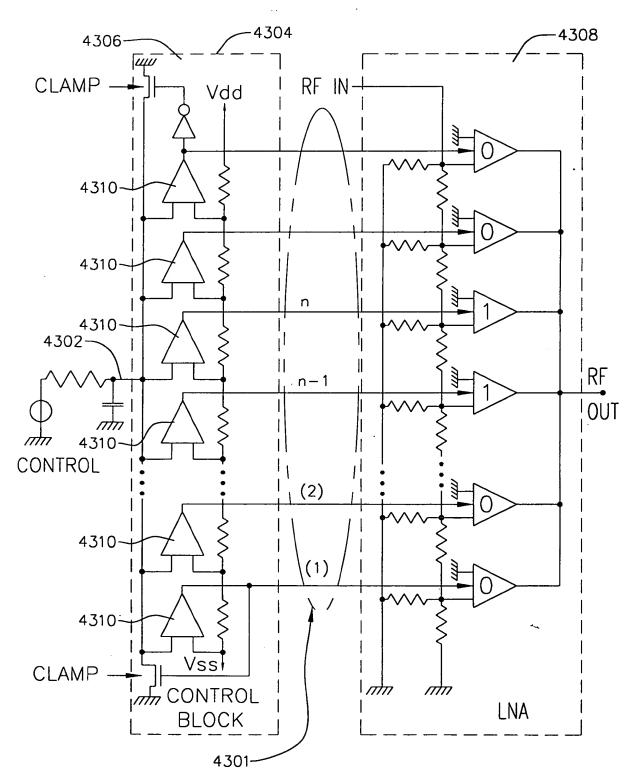


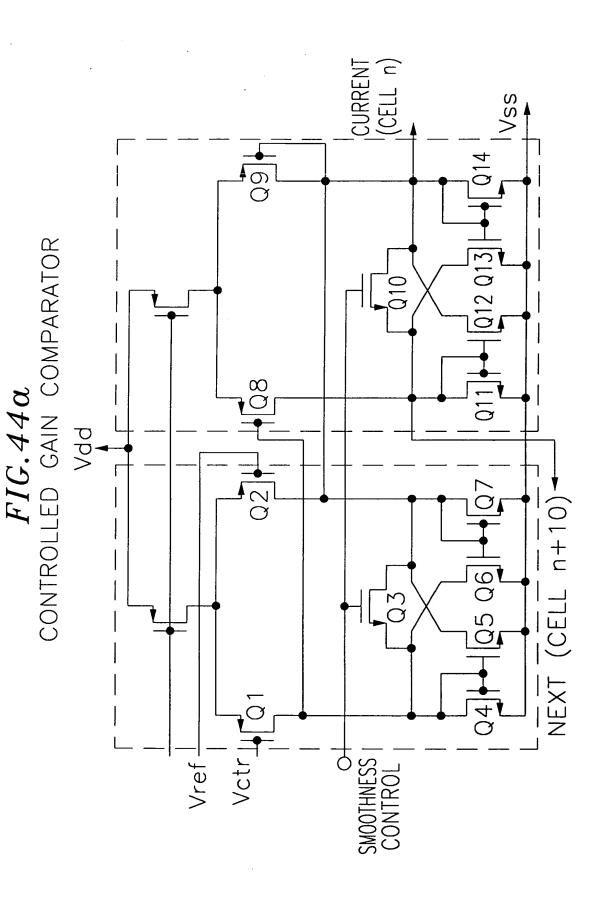
FIG.42

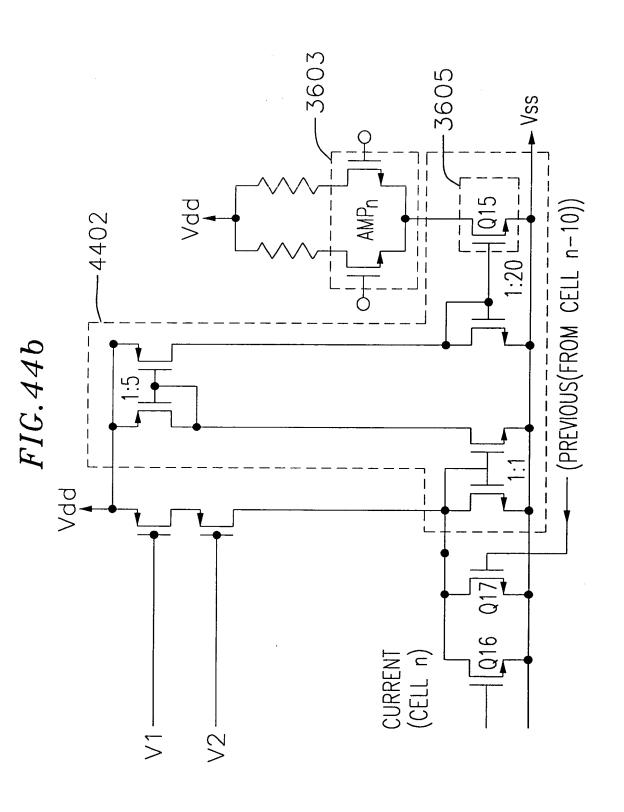
NON-MONOTONICITY











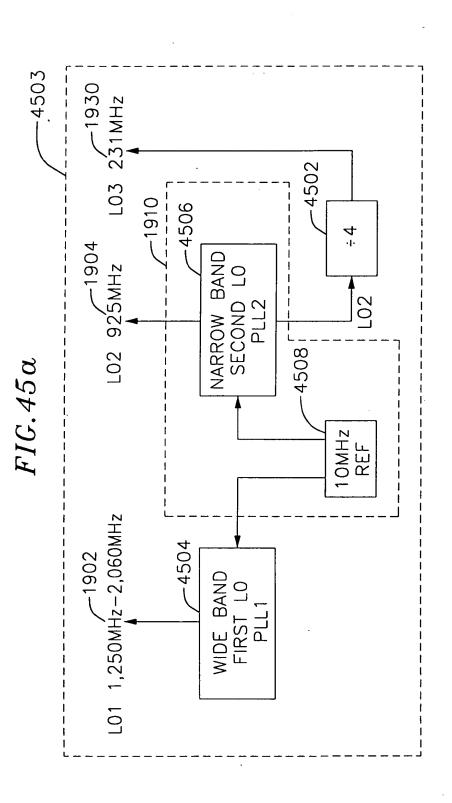
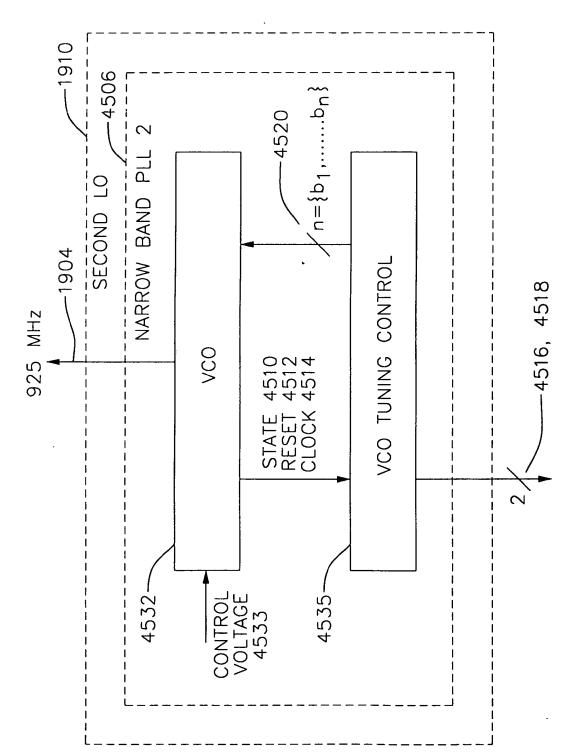
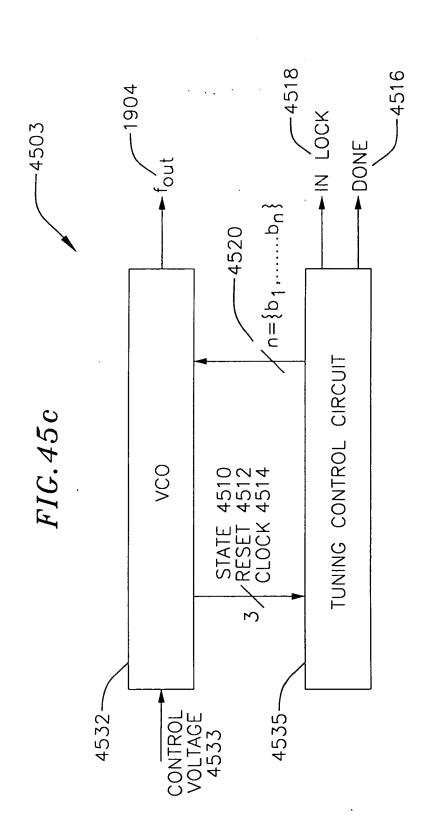


FIG.45b





4503 -1904 -4518 IN LOCK DONE 4532 $n = \{b_1, \dots, b_n\}$ -4520 000 TUNING CONTROL CIRCUIT -4599. FEEDBACK NETWORK H(jε) AMPLIFIER STATE 4510 RESET 4512 CLOCK 4514 G(jω) -4507 4505-2 4535 CONTROL VOLTAGE L 4533

FIG.45d

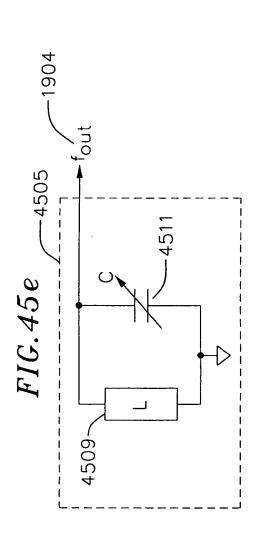


FIG.45f -4517 -4515 -4515 -4515 -60ut -60ut -60ut -60ut -60ut

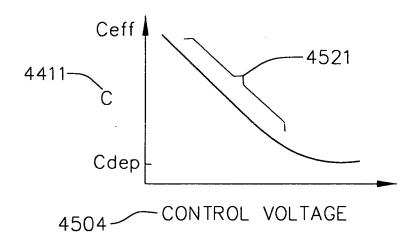
4509~

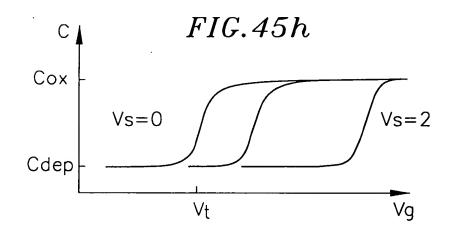
4513 /

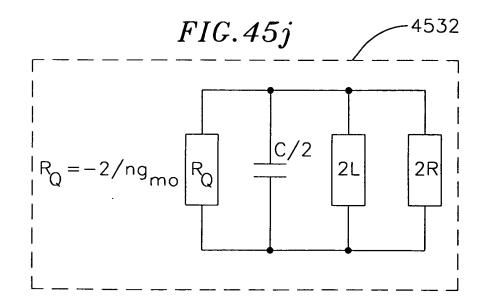
4519

2

FIG.45g capacitance vs control voltage







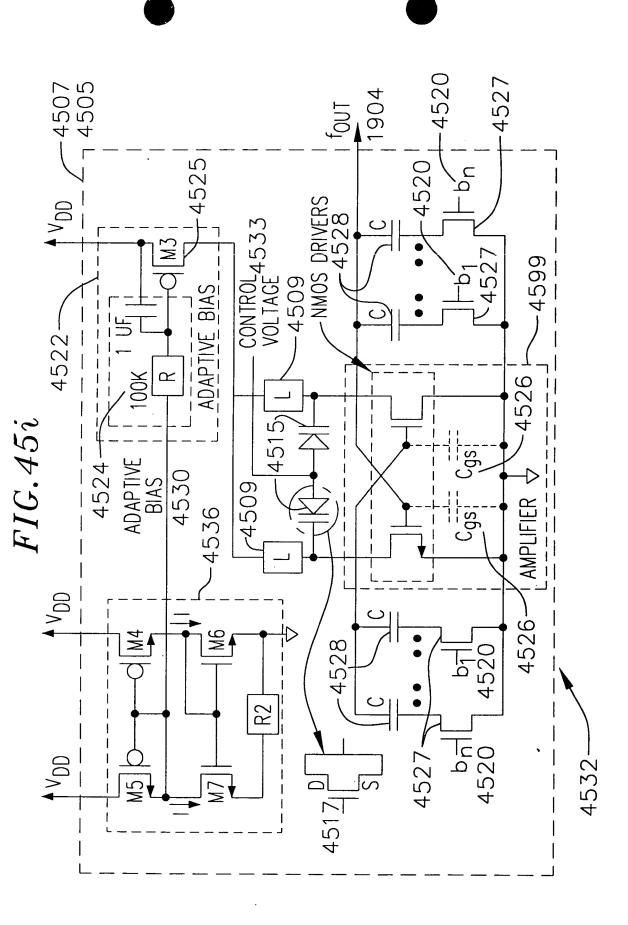
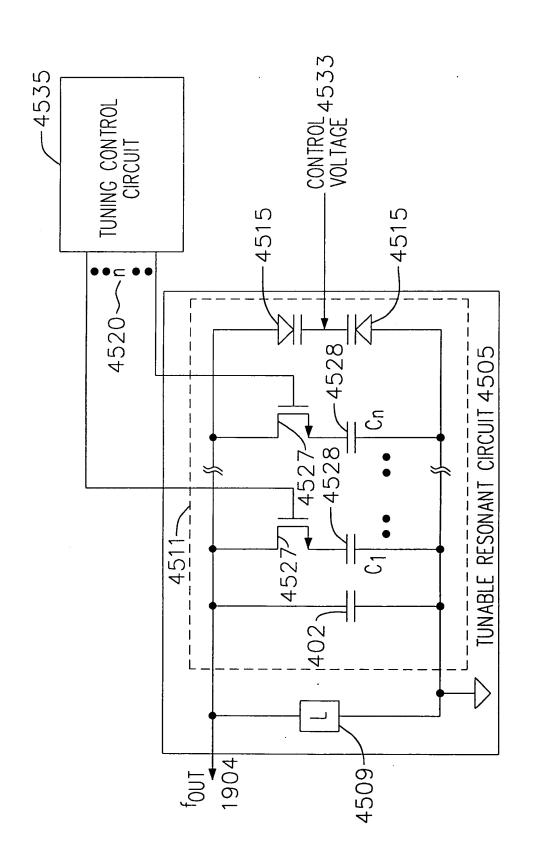


FIG. 45k



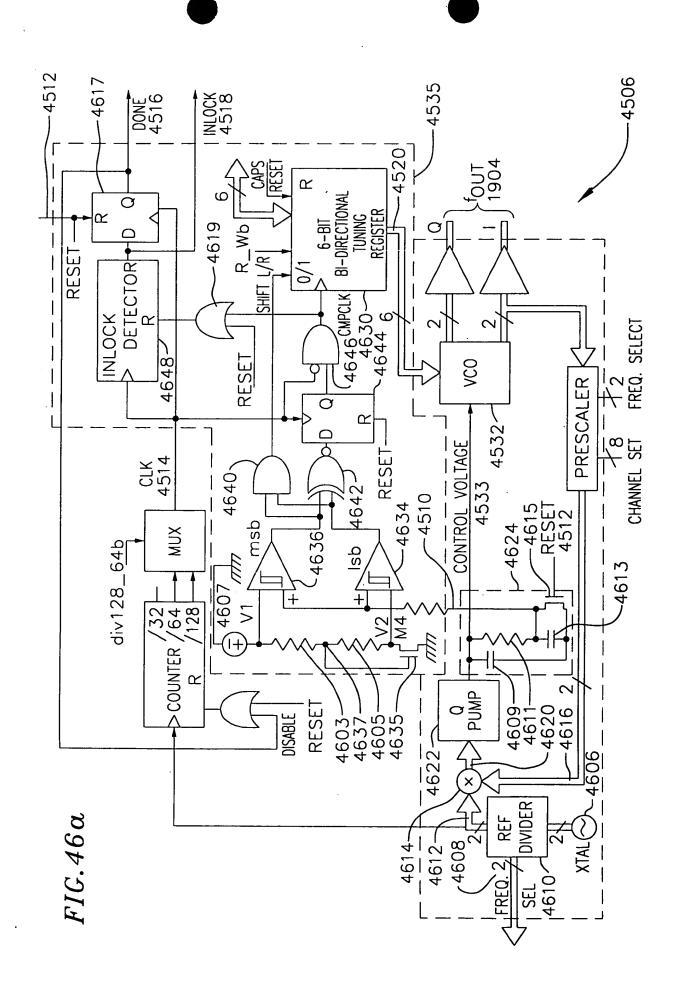
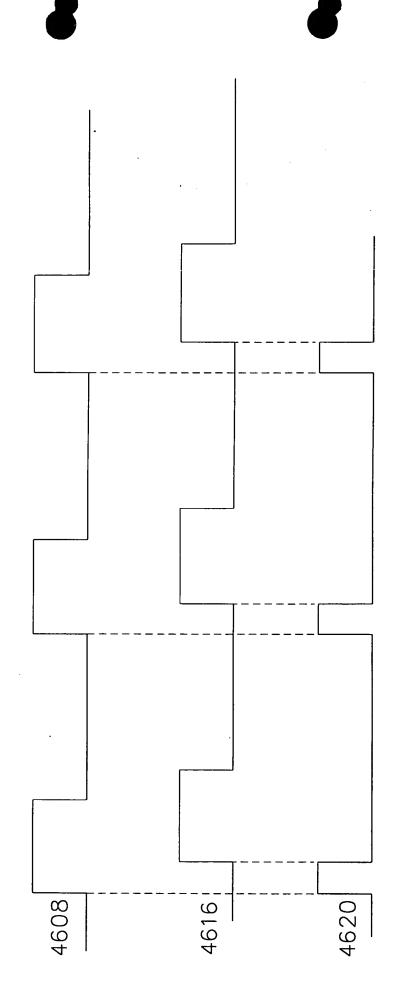


FIG.46b



 $FIG.47\alpha$

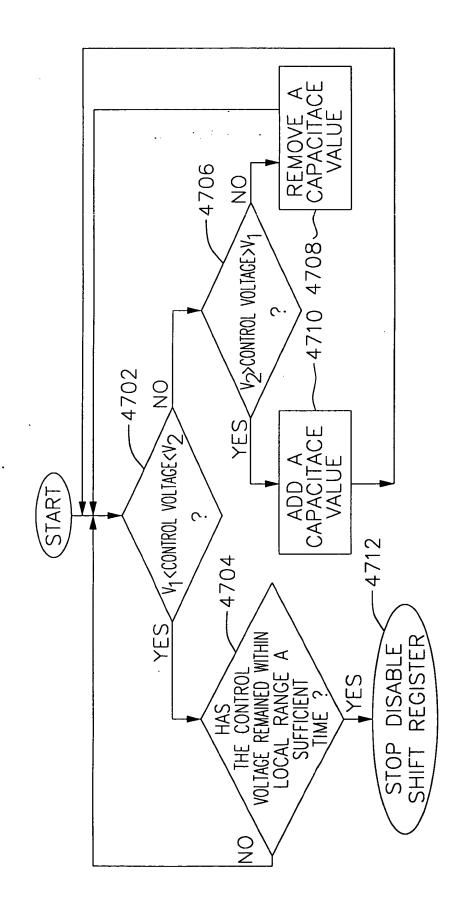
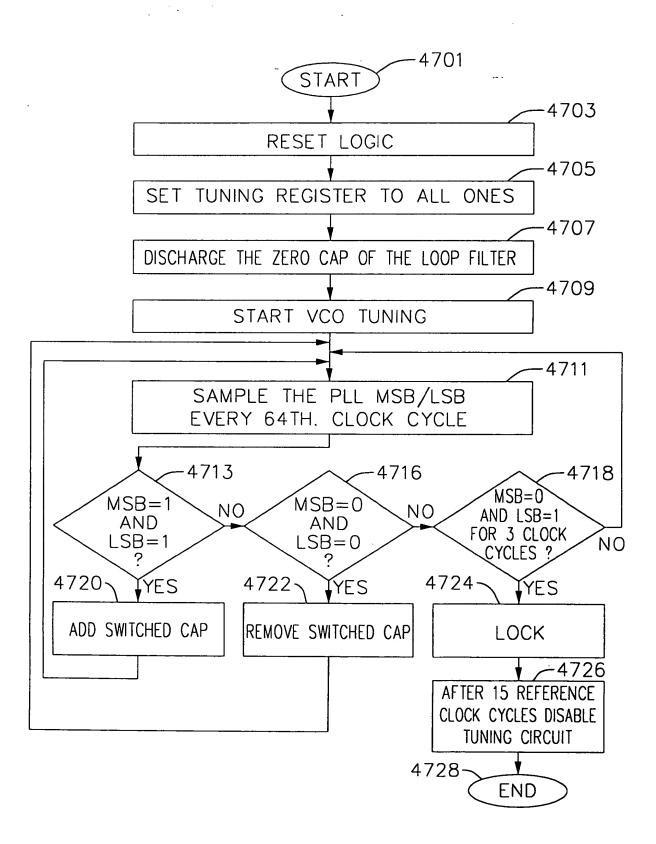


FIG. 47b



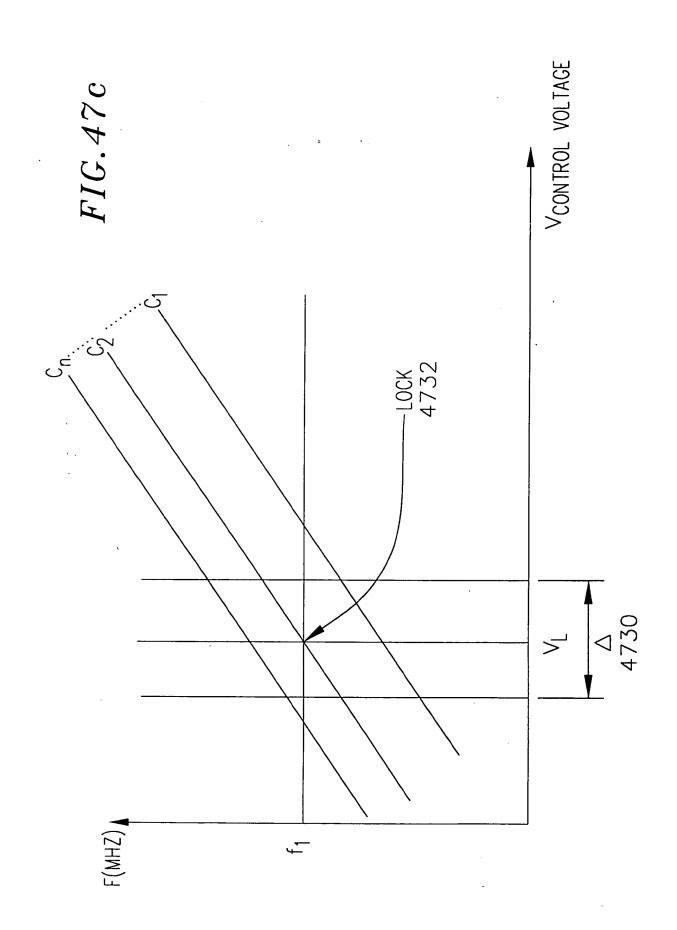
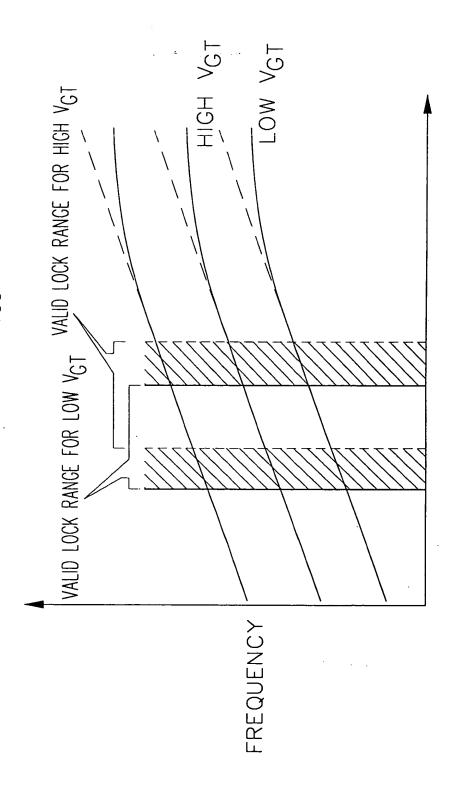
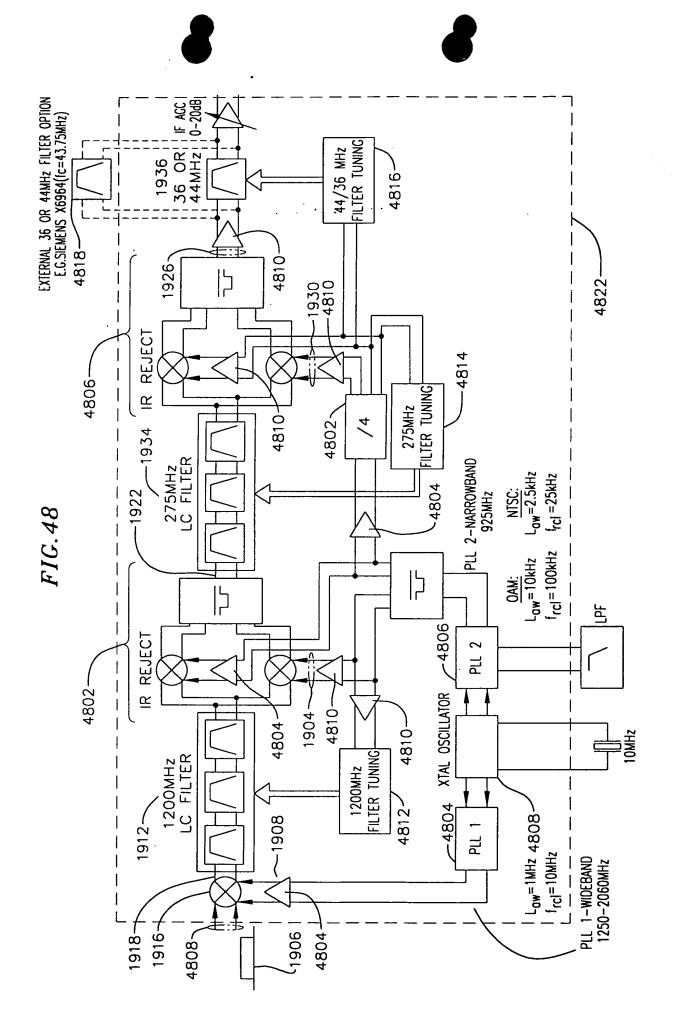


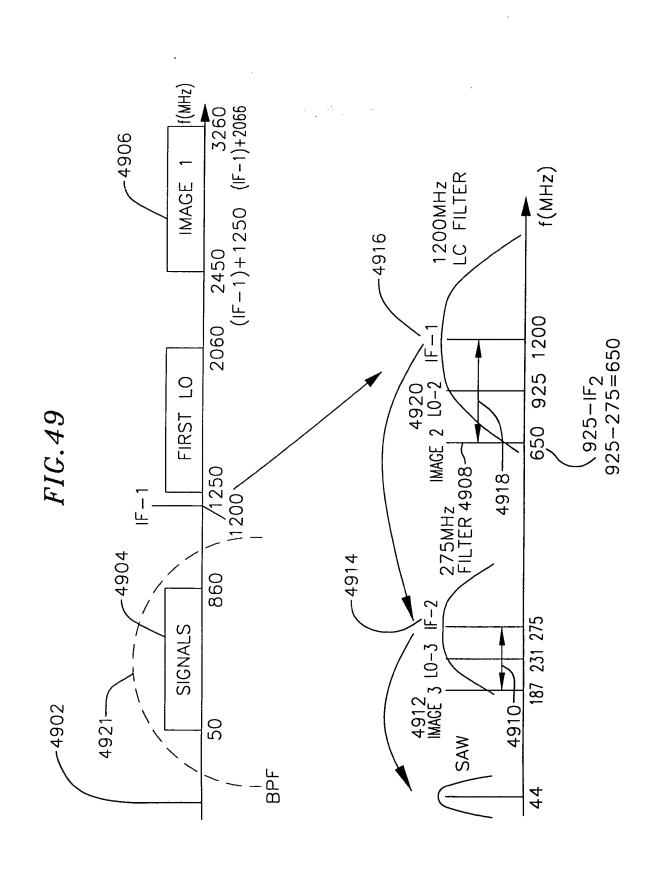
FIG. 47d

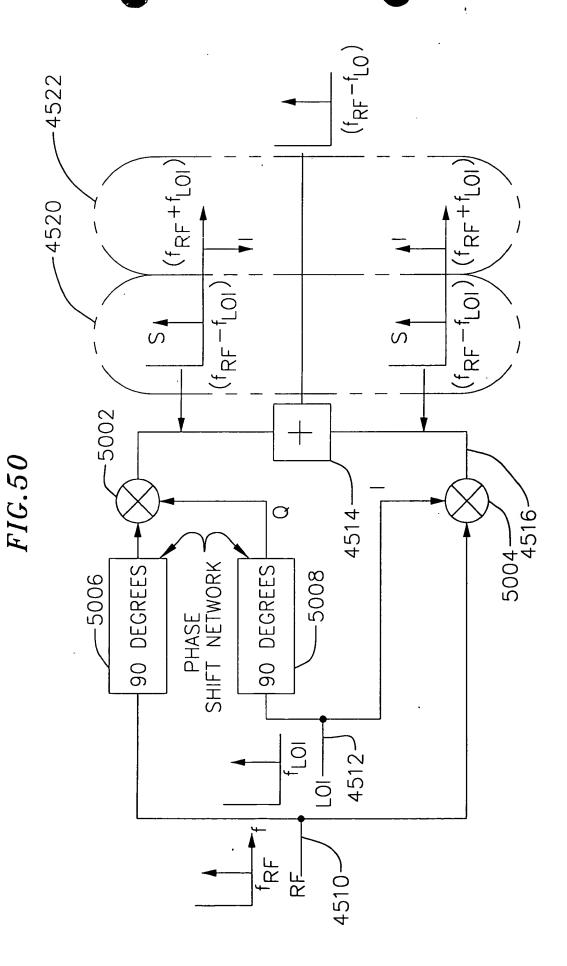
REPRESENTATIVE Kyco CURVES

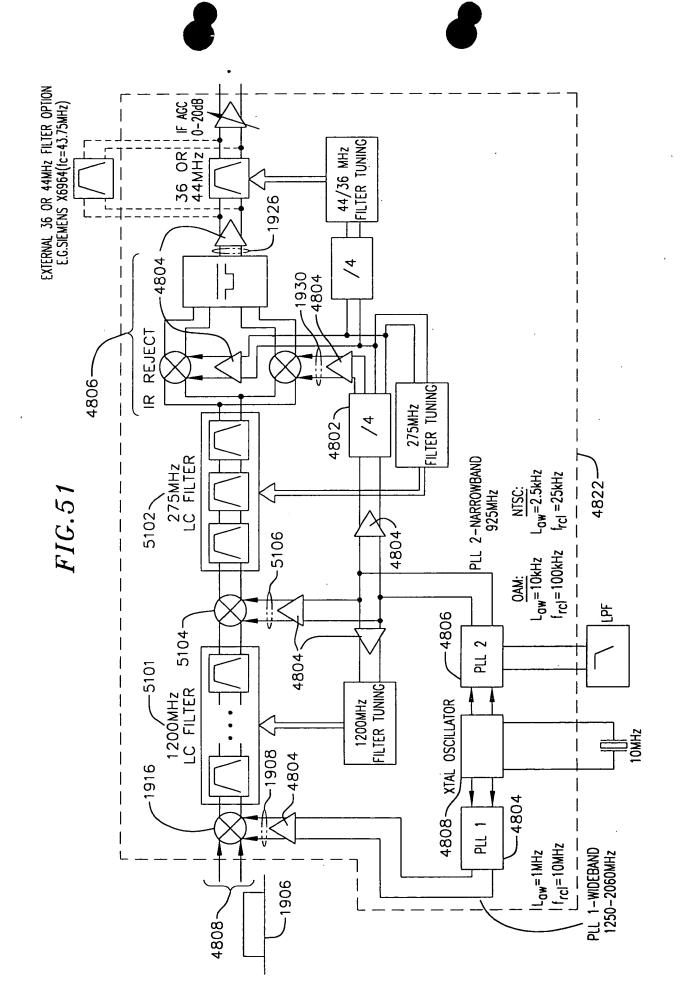


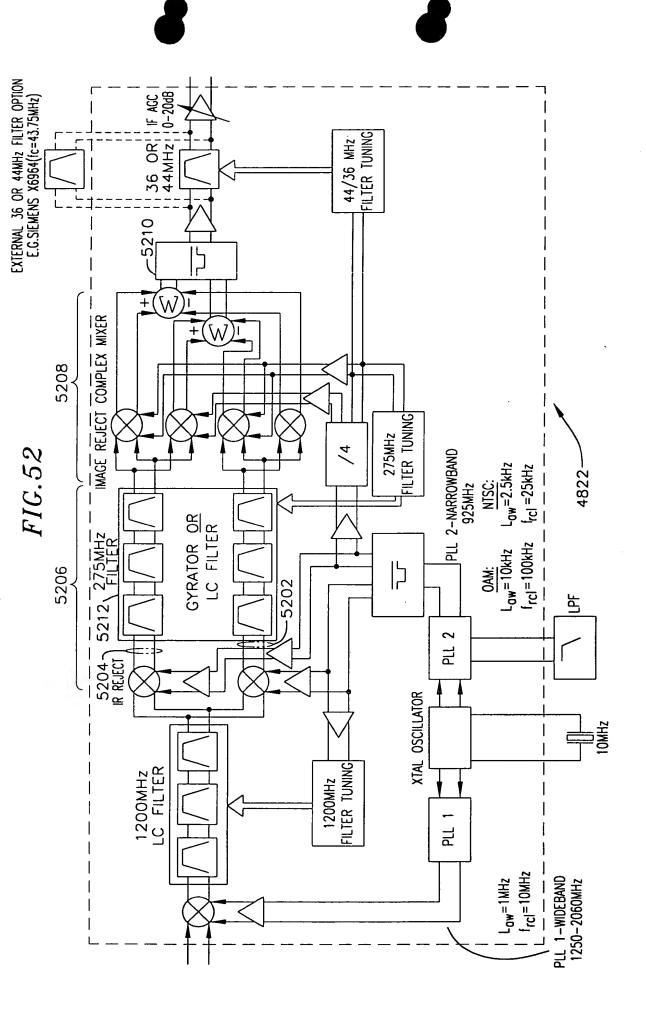
CONTROL VOLTAGE







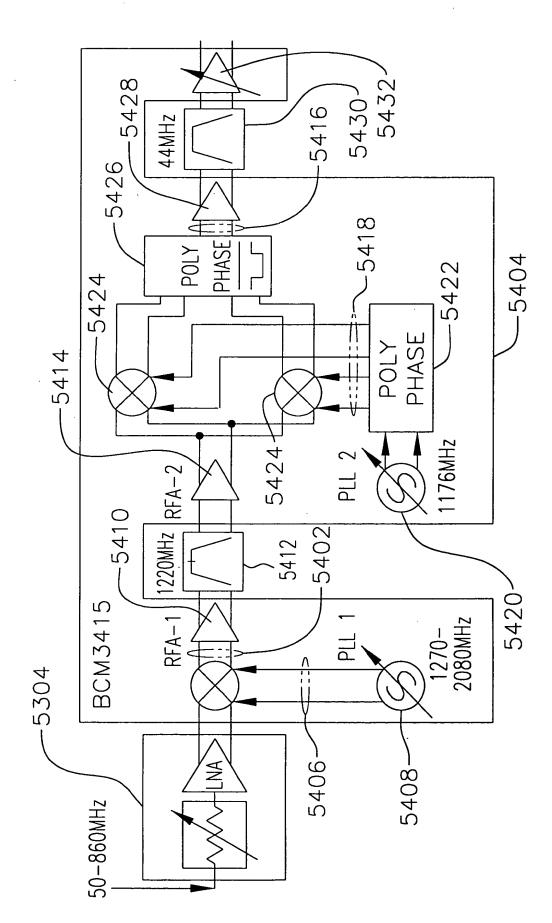


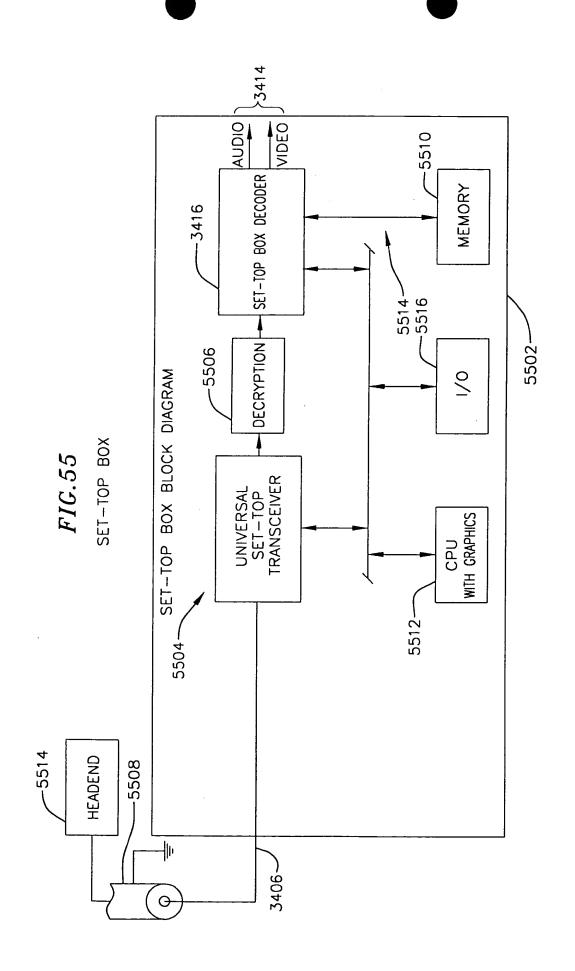


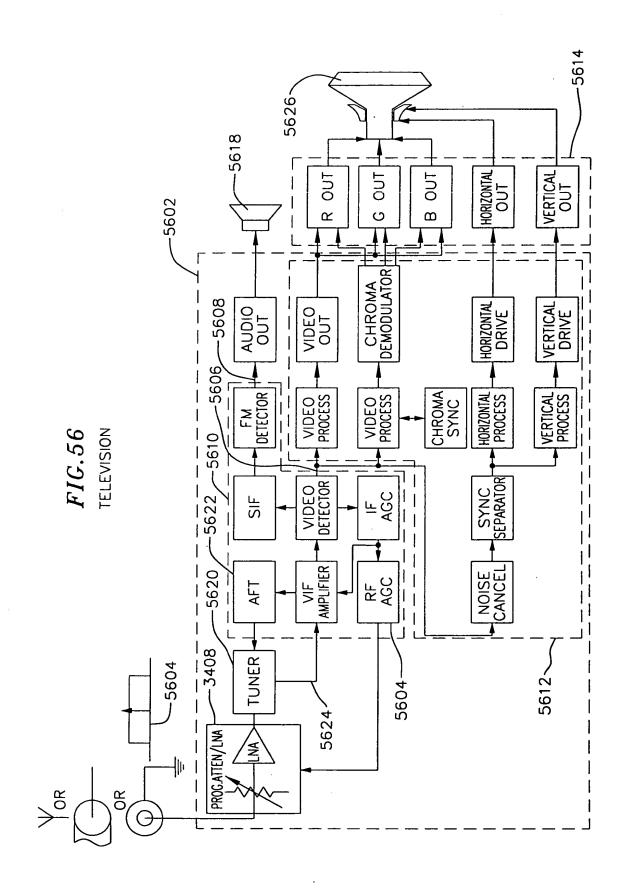
[1] [1] [1] [1] [1] [1] [1] [1] [1]

| ACC | 0-20dB | 36 OR 44MHz IR REJECT 275MHz FILTER TUNING 4 ✓ PLL 2-NARROWBAND 925MHz $\frac{\text{NTSC}}{L_{QW}=2.5\text{kHz}}$ frcl =25kHz 275MHz LC FILTER $\begin{array}{c} OAM: \\ L_{dw} = 10kHz \\ f_{rcl} = 100kHz \\ \hline \end{array}$ CATV TUNER FIG.53(6) | | 띩 PLL 2 IR REJECT XTAL OSCILLATOR 10MHz 1200MHz FILTER TUNING 1200MHz LC FILTER Low=1MHz 5302-PLL 1 | f_{rcl}=10MHz |----------------------PLL 1-WIDEBAND | 1250-2060MHz | -5304 RF AGC

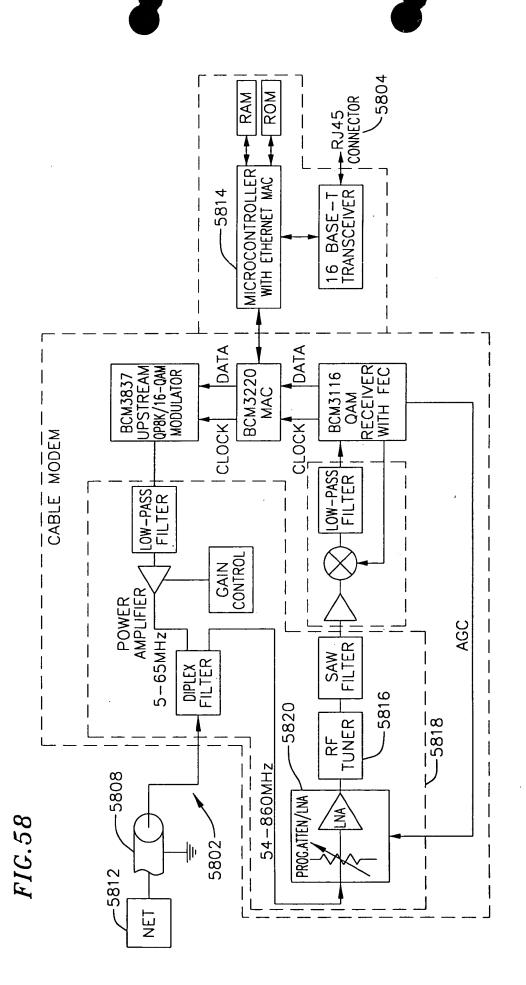
FIG.54

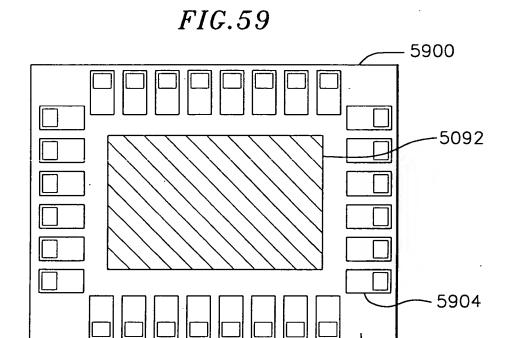






MODULATOR | PF OUT VIDEO OUTPUT 5706 SIGNAL SWITCH UNIT RECORDING UNIT ∞ -5708 TAPE ⋖ \underline{Z} \circ 5710-FIG.57VCR BLOCK DIAGRAM SIGNAL **PROCESSOR** VIDEO SIGNAL **PROCESSOR** AUDIO CONTROLLER \underline{Z} C TAPE RECORDING AUDIO SYNC OR AGC DETECTOR VIDEO ZC LINI PROCESSOR ON-SCREEN DISPLAY VIF AND SIF AMPLIFIERS AND DETECTORS 5708-RECEIVER KEYBOARD EEPROM LOCAL <u>«</u> -5702 CONTROL CONTROL ASSEMBLY TUNER BAND TIMER ROM RAM CPU -5704





-5906

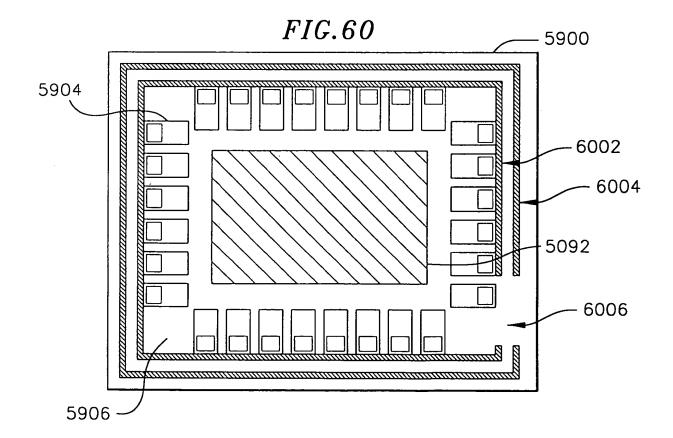


FIG. 61

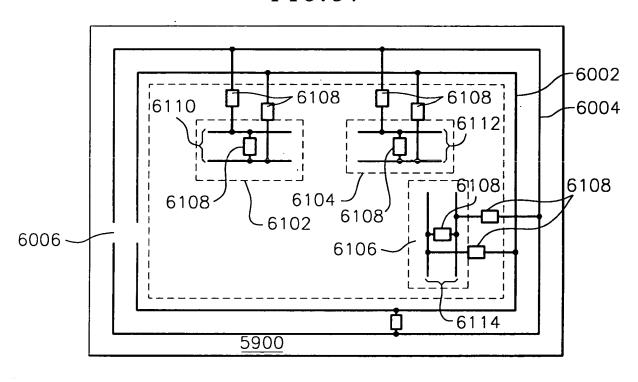


FIG. 62

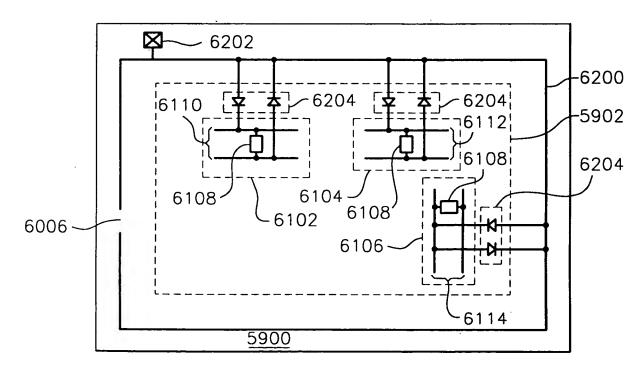


FIG.63

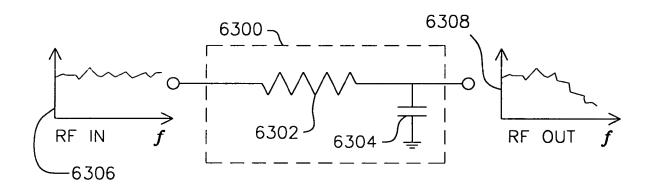


FIG. 64

FIG. 65

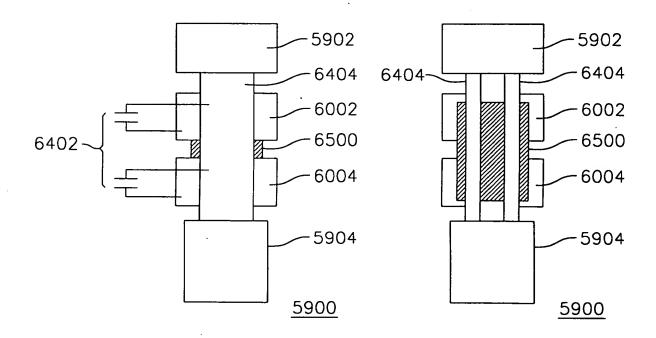


FIG. 66

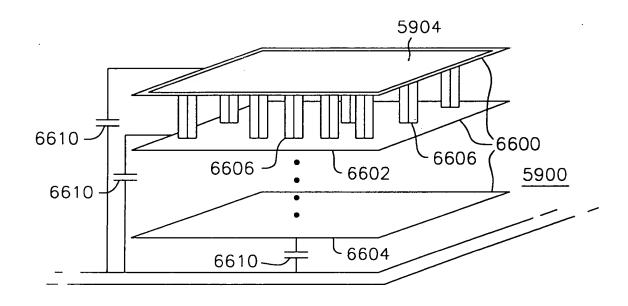


FIG.67

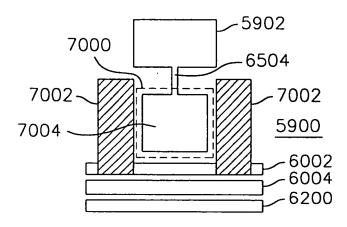
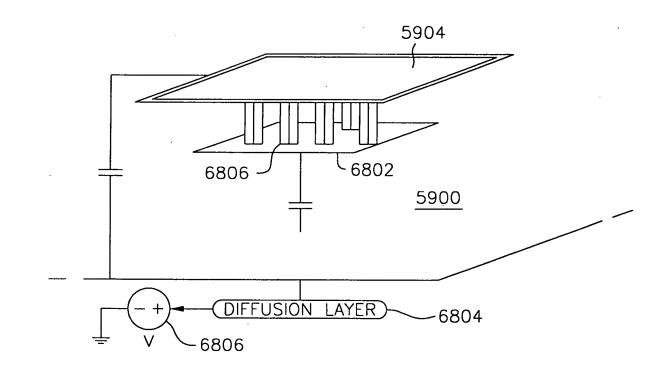
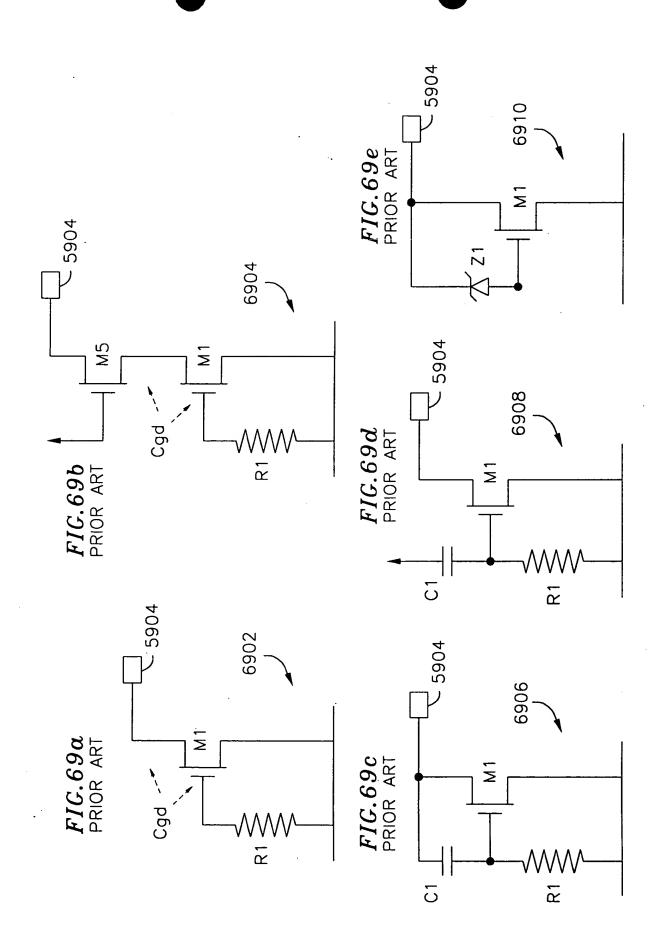
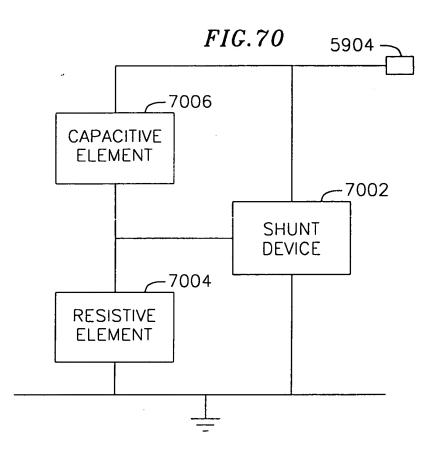
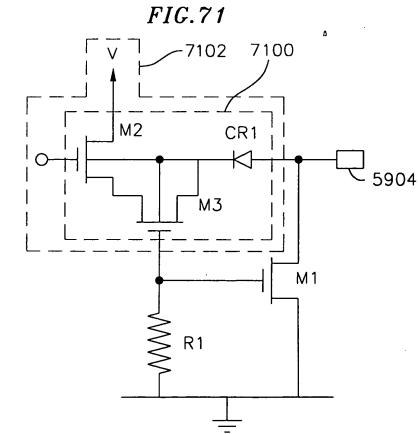


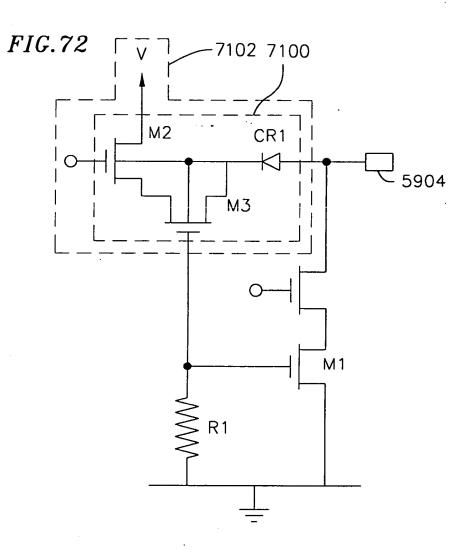
FIG. 68











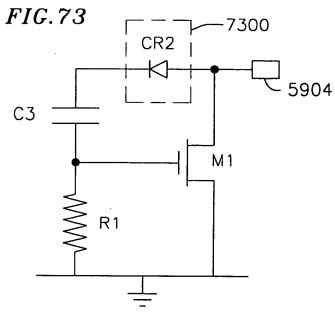
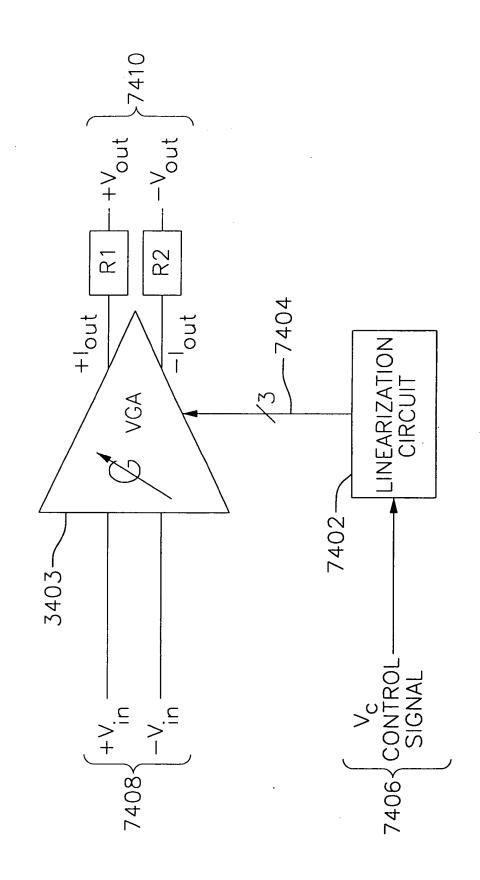


FIG.74



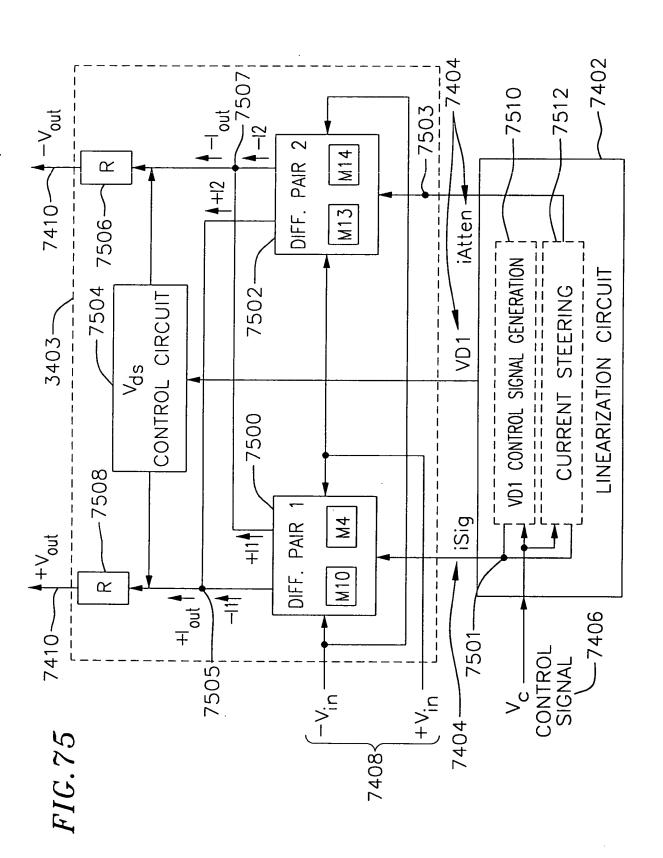
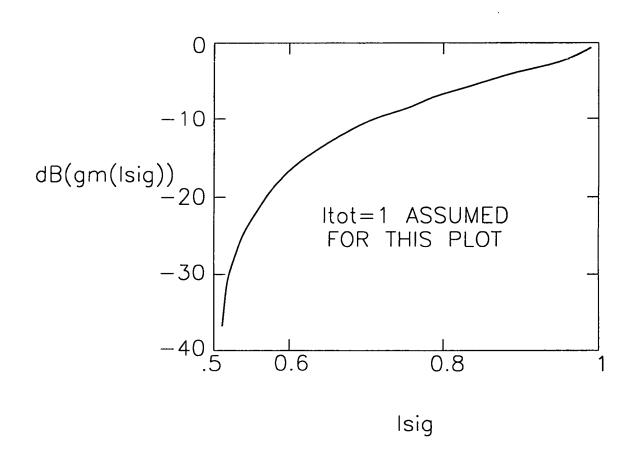
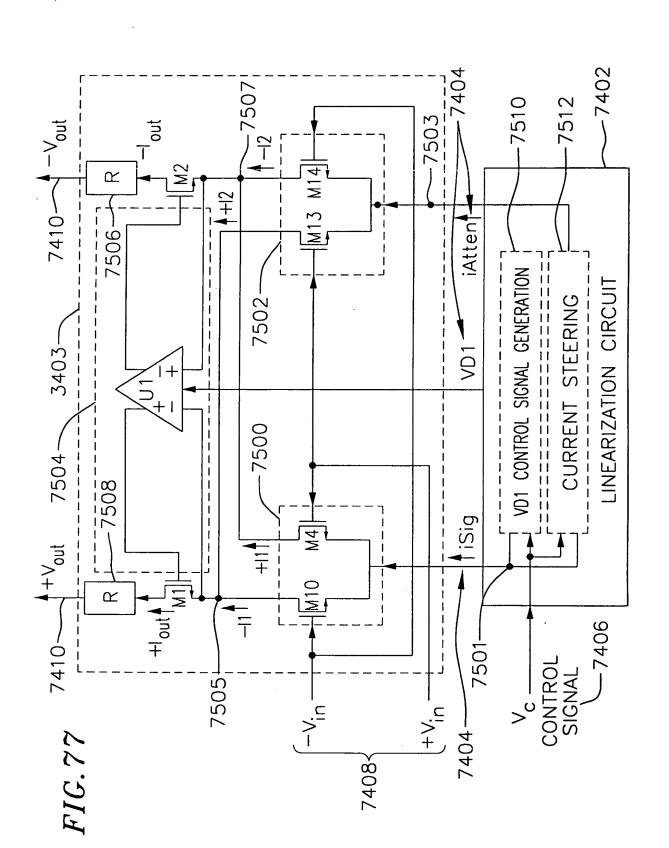
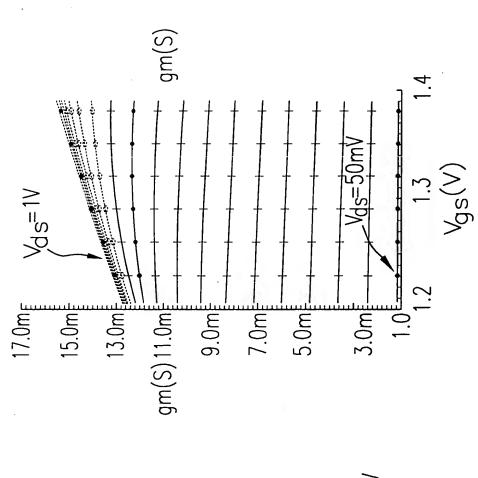


FIG. 76







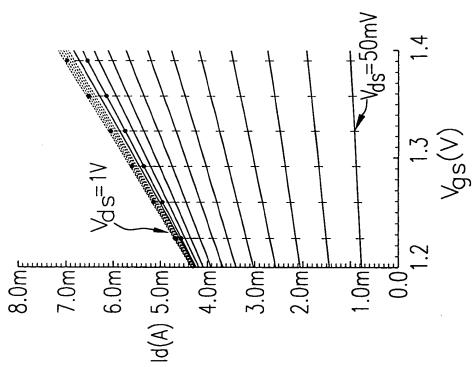
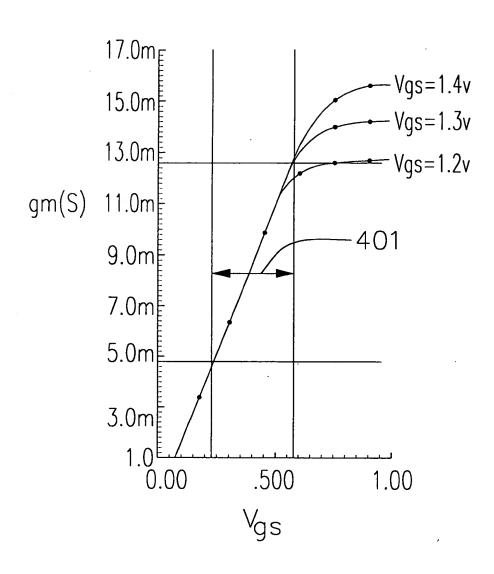
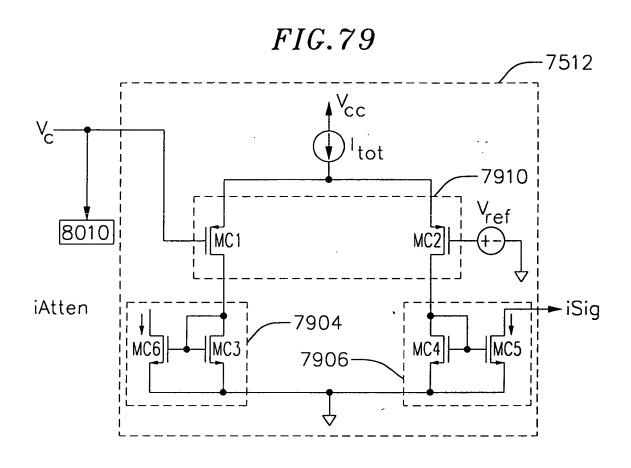
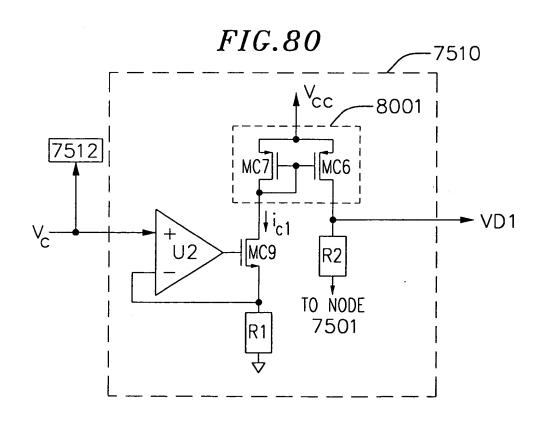


FIG. 78c







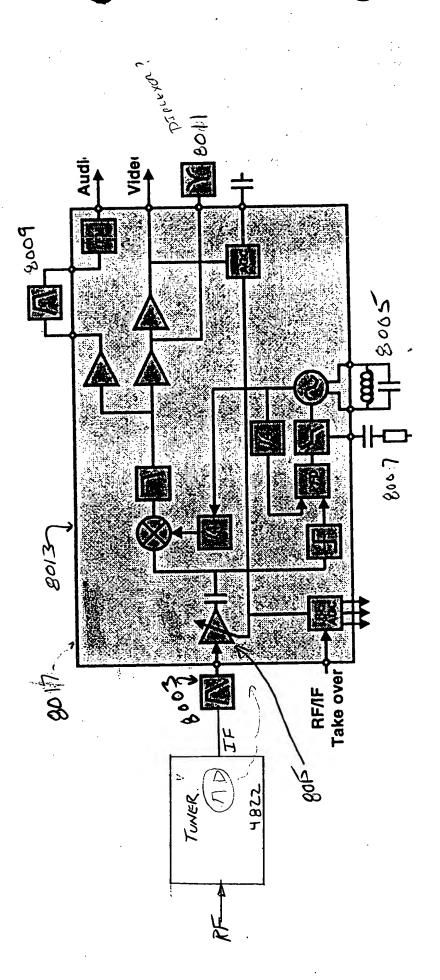


FIG. 8

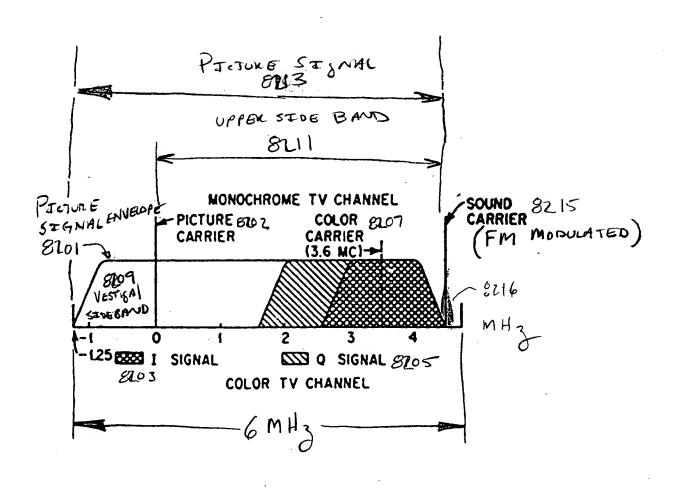


FIG. 82

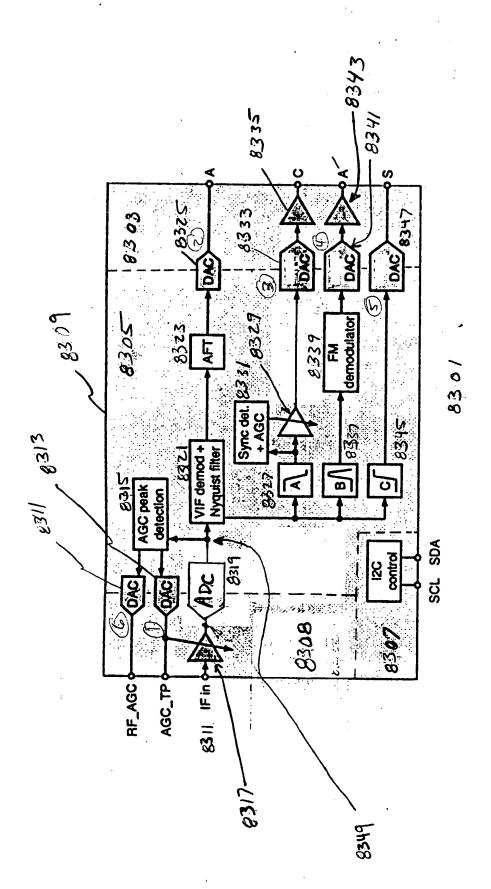


FIG. 83

